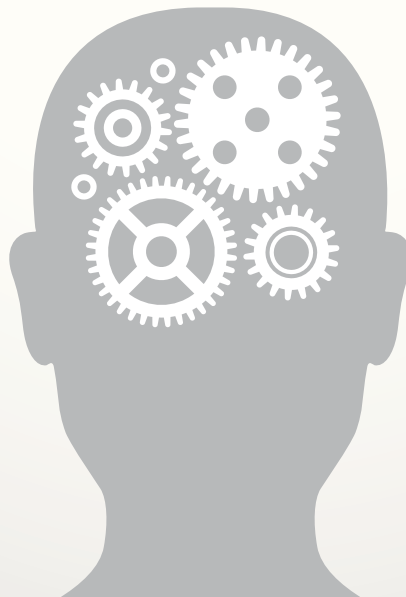




STARK STATE COLLEGE

2015-16 COLLEGE CATALOG





STARK STATE COLLEGE

6200 Frank Avenue NW
North Canton, Ohio 44720
330-494-6170 | 800-79-STARK
www.starkstate.edu

Accredited by the Higher Learning Commission



STARK STATE COLLEGE

Ohio

Board of Regents
University System of Ohio

John R. Kasich, Governor
John Carey, Chancellor

WELCOME TO STARK STATE COLLEGE AND THE UNIVERSITY SYSTEM OF OHIO

Access to Ohio's state-assisted colleges must be assured for every person who wants and can benefit from higher education. Stark State College cordially welcomes anyone who wishes to receive a higher education.

According to Section 3345.06 of the Ohio Revised Code, "A graduate of the twelfth grade should be entitled to admission without examination to any college or university which is supported wholly or in part by the state."

Open admission carries with it the full weight of equal opportunity for all, which means the College must make every effort to be sensitive and responsive to the needs of prospective students. The open admission policy allows a student to enroll in the College, but not necessarily in a specific degree-granting program.

Normal admission to the College is open to anyone who is a high school graduate or the equivalent, completes the enrollment procedures and pays the fees for admission.

This is exclusive of academic record or placement testing results. This open door policy does not deny specific academic departments the right to require preliminary training or talent.

Students who do not meet specific program requirements upon admission to the College may be required to satisfactorily complete such requirements before admission into a specific program.

NOTE: Stark State College reserves the right to make changes in offerings, requirements and regulations subsequent to the publication of the catalog. A student accepted into a specific associate degree or one-year certificate program, and who is completing the coursework on a part-time or full-time basis after a lapse of years, should seek periodic advising from the appropriate department chair due to possible changes to the requirements.

Stark State College is committed to equal opportunity for all and does not discriminate on the basis of race, color, religion, sex, gender, national origin, military status, pregnancy, disability, age, genetic information or sexual orientation. For inquiries regarding the College's non-discrimination policies, please contact:

6200 Frank Ave. N.W. | North Canton, OH 44720-7299
330-494-6170 | 800-79-STARK

For most current class schedule: www.starkstate.edu

*Section 504 - Student Success and Advising Specialist, Renee Lilly 330-494-6170 ext. 4250;
Title IX - Coordinator, Emergency Planning & Security, Diana Tsenekos at 330-494-6170 ext. 4424;
Title VI - VP & Special Assistant to Provost, Cheri Rice at 330-494-6170, Ext. 4344.*



STARK STATE COLLEGE

ADMINISTRATIVE OFFICERS

Para M. Jones, PhD

President, Stark State College

Lada Gibson-Shreve, PhD

Provost and Chief Academic Officer

Thomas A. Chiappini

Vice President for Business and Finance

Michael Droney

Vice President for Enrollment Management, Student Services and Administration

Joanne Lally Eberhart

Executive Director of Advancement and Stark State College Foundation

Daryl Revoldt, PhD

Executive Director of Workforce and Economic Development

VISION STATEMENT

Stark State College will be a leader in higher education and a catalyst for economic growth and community prosperity.

MISSION STATEMENT

Stark State College provides quality, high-value associate degrees, certificates, and professional development in a diverse, student-centered learning environment. The College is dedicated to lifelong learning; affordable, transferable higher education; and career success. Stark State College advances quality of life through access, academic success, stewardship, and business and community partnerships.

BOARD OF TRUSTEES

Kari L. Groh

Chair

Jeffery A. Walters

Vice Chair

Jeffrey A. Halm, Esq.

Christopher J. Maurer

Alice C. Stephens

Michael L. Thomas, DDS

Fonda P. Williams II

GENERAL LEARNING OUTCOMES

PURPOSE STATEMENT

General education provides students with a breadth of knowledge and capacity for lifelong learning. It stretches students' minds, broadens their experiences, and develops skills to adapt to changing environments. General education prepares students with the skills to communicate effectively, problem solve, analyze, locate and gather information, and think critically and logically. It teaches students to understand and appreciate diversity and its interrelationships, sustainability, as well as community engagement and informed citizenship. Students are taught personal integrity, social responsibility, and the interpersonal skills needed to succeed in a professional environment.

Our general education philosophy is embedded in our mission and vision and is supported by our core values. These core values serve to emphasize our commitment to our students, to learning, to shared responsibility, and to the continuous improvement of the education we offer. We work collaboratively to create a campus culture that is academically challenging and emotionally supportive.

EFFECTIVE COMMUNICATION (WRITTEN, ORAL, READING, AND LISTENING)

- Organize and develop ideas effectively.
- Present ideas in an appropriate, mechanically and grammatically correct, professional style.
- Follow a standardized documentation format.

QUANTITATIVE LITERACY (INCLUDES COMPUTATIONAL SKILLS)

- Determine a solution strategy and set up the problem with the pertinent information.
- Solve the problem using the appropriate data, the mathematical operations (symbols and formulas), and the appropriate technology (such as calculators and computers) as needed.
- Analyze and interpret the results for accuracy and reasonableness and explain the results using such tools as graphs, charts, and tables as needed.

INFORMATION LITERACY SKILLS

- Locate, evaluate, and use effectively the needed information.
- Manipulate current software and hardware to access and communicate information appropriately.
- Understand copyright rules and the ethics of extracting, sharing, and citing source information.

CRITICAL THINKING SKILLS

- Understand and interpret data by analyzing and synthesizing information.
- Challenge assumptions and draw informed and logical conclusions.
- Test conclusions against relevant criteria and standards while considering practical and ethical implications.

GLOBAL AND DIVERSITY AWARENESS

- Demonstrate appreciation and respect for individuals and groups and use effective interpersonal and collaboration skills.
- Demonstrate awareness of the interdependence of factors of diversity: culture, history, sexual orientation, psychological functioning, education, economics, environment, geography, language, politics, age, gender, ethnic heritage, physical challenges, social class, social skills, and religion.

CIVIC, PROFESSIONAL, AND ETHICAL RESPONSIBILITY

- Demonstrate personal integrity and social responsibility consistent with ethics, individual rights, principles of sustainability, and civility in a democratic society.
- Accept responsibility for and act in a manner that reflects the values of the communities and organizations.
- Relate to others in a respectful, courteous, and professional manner.

STARK STATE COLLEGE PROFILE

Stark State College is committed to preparing our students for career success in a competitive, sophisticated economy. Our graduates are in demand by employers who recognize their high skill level and readiness to succeed.

Our students receive a high-quality education at an affordable cost. It's a formula that works, thanks to our

- dedicated and experienced faculty
- convenience, efficiency and affordability
- mission of access, student success and economic development.

Stark State is the largest of Stark County's colleges and universities, and the fourth largest of Ohio's 23 public two-year colleges in the University System of Ohio. We offer more than 280 associate degrees, majors, one-year and career enhancement certificates in business and entrepreneurial studies, education, engineering technologies, health and human services, information technologies, liberal arts, mathematics and sciences.

The College awards associate of arts, associate of science, associate of applied science, associate of applied business and associate of technical studies degrees. Our wide range of short-term career enhancement certificates help employees improve skills and gain a competitive edge in a marketplace of rapidly changing technology, and can lead to one-year certificates and associate degrees in a variety of fields.

AFFORDABLE, TRANSFERABLE EDUCATION

Students often get their start at Stark State through our affordability and transferability. The associate of arts (AA) and associate of science (AS) degrees open pathways for graduates to pursue a baccalaureate degree in virtually any area of study. Stark State offers a transfer module of 36-40 semester hours of credit courses guaranteed to transfer to all state-supported colleges and universities in Ohio. The College also has articulation agreements with more than 40 universities and colleges, allowing our students to move smoothly from associate degree programs into baccalaureate degree programs.

Not only does Stark State maintain a low tuition rate, our knowledgeable financial aid specialists help students explore the many grants, loans and scholarships that can help finance their education. More than half of all Stark State students have no out-of-pocket education expenses, thanks to scholarships and financial aid.

PARTNERS IN ECONOMIC GROWTH AND DEVELOPMENT

Well-respected in the community, Stark State College plays a vital role in the economic growth and development of the region through its strong tradition of providing credit and noncredit educational and training services to employers and residents. Our community and business partnerships are vital to the area. An on-campus partnership with LG Fuel Cell Systems, Inc. positions Stark State as a leader in supporting fuel cell research, development and commercialization, while our partnerships with oil and gas companies and The Timken Co. in its technology and test center give our students applied research and training opportunities. These collaborations also fuel economic development, creating new industries and jobs for Stark County.

Canton Mayor William Healy II has said he's amazed at "how flexible Stark State is in being able to quickly ramp up to meet the needs of current and potential employers. Stark State is one of the greatest assets I have in selling Stark County to potential businesses."

FACILITIES THAT SERVE OUR COMMUNITY

Most recently, downtown Canton has seen life breathed into two facilities that through state funding have been revived to serve as Stark State's Well Site Training Center and Downtown Canton Satellite Center. Combined, the two facilities tout 68,522 square footage and state-of-the-art training equipment for careers in the oil and gas industry and other programs offered. In addition, 2015 will mark the opening of two of Stark State's newest facilities: the Gateway Center on main campus, a one-stop approach to admissions, enrollment and recruiting; and the new 10,000 square foot Alliance Satellite Center that is located on the campus of Alliance Community Hospital.

The College's Dental Hygiene Clinic provides services to area residents at reduced rates by students-in-training under the expert supervision of dentists and faculty members. The Massage Therapy Clinic offers the community affordable therapeutic massage while providing our massage therapy students the opportunity to apply their knowledge and skills in a supervised setting.

Our LEED-certified Business and Entrepreneurial Studies Building is a 47,700-square-foot home to more than 30 degrees, majors and certificates in accounting, business management, corporate finance, entrepreneurship, marketing management and other programs. A \$9 million health sciences building accommodates the region's growing need for highly skilled health care workers. The W.R. Timken Center for Information Technology houses the information technology and engineering technology classrooms. The Ralph Regula Wellness and Therapy Center is an educational center for students studying physical therapy assisting and occupational therapy assisting. The Automotive Technology Center, located off-campus on Whipple Avenue is a 40,000-square-foot facility housing the automotive and transportation technologies, and a site in downtown Canton for second-year automotive technology students allows the program to expand to meet community demand.

EXPERIENCED, CREDENTIALLED FACULTY SERVE OUR DIVERSE STUDENTS

The average Stark State student fits the profile of the typical two-year college student in the nation: 59% of SSC students are female, 71% attend college part time, 22% are minorities and 46% are the first generation in their families to attend college. The average age of Stark State's students is 28, and the majority of our students hold jobs while in school.

The College has more than 200 full-time faculty and nearly 400 adjunct faculty. More than 60% of the College's full-time faculty members have master's degrees and 12% have doctorate degrees. The fact that many instructors and professors are hired with extensive expertise in their fields strengthens the College curriculum and provides students greater opportunity for "real world" application of both technical and general knowledge in their majors.

Our advisory committee system means 300 individuals representing more than 170 companies and organizations review curriculum and provide input on current trends in their industries.

Stark State College is accredited by the Higher Learning Commission. Many technology programs also are accredited by their respective licensing/accrediting organizations. Stark State is located in northern Stark County near Interstate 77, conveniently located for students from Stark, Carroll, Columbiana, Holmes, Medina, Portage, Summit, Tuscarawas and Wayne counties. Satellite centers are located in Alliance, Barberton, Carrollton and Downtown Canton.

For the most current academic and student conduct policies, as well as additional policies and procedures of interest to students, go to www.starkstate.edu/policies. Printed copies may be requested in the Office of Admissions/Student Services.

ACCREDITATIONS AND PROGRAM APPROVALS

STARK STATE COLLEGE IS ACCREDITED BY

The Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411; 312-263-0456 or 800-621-7440; Fax 312-263-7462; info@hlcommission.org; www.hlcommission.org

BUSINESS AND ENTREPRENEURIAL STUDIES

ACCOUNTING, CORPORATE FINANCE, FINANCIAL SERVICES, BUSINESS MANAGEMENT and MARKETING MANAGEMENT Accredited by the Accreditation Council for Business Schools and Programs, 11520 West 119th Street, Overland Park, KS 66213; (913)339-9356; info@acbsp.org; www.acbsp.org

ENGINEERING TECHNOLOGIES

AUTOMOTIVE AND TRANSPORTATION (Comprehensive, GM-ASEP, Honda PACT, Toyota T-TEN) Accredited by the National Automotive Technicians Education Foundation (NATEF); 101 Blue Seal Drive, SE, Suite 101, Leesburg, VA 20175; www.natef.org

CIVIL ENGINEERING TECHNOLOGY, DESIGN ENGINEERING TECHNOLOGY, ELECTRICAL ENGINEERING TECHNOLOGY, ELECTRONIC ENGINEERING TECHNOLOGY and MECHANICAL ENGINEERING TECHNOLOGY Accredited by the Engineering Technology Accreditation Commission of the Accreditation Board of Engineering and Technology (ETAC of ABET); 111 Market Place, Suite 1050, Baltimore, MD 21202-4012; 410-347-7700; www.abet.org

International Association of Drilling Contractors (IADC) Rig Pass, SafeLAND and SafeGULF programs.

HEALTH

DENTAL HYGIENE PROGRAM The dental hygiene program is accredited by the Commission on Dental Accreditation. The Commission is a specialized accrediting body of the American Dental Association recognized by the United States Department of Education: Commission on Dental Accreditation, American Dental Association, 211 E. Chicago Avenue, Chicago, IL 60611; 312-440-4653; www.ada.org/en/coda

DIETARY MANAGER PROGRAM The dietary manager program is accredited by the Association of Nutrition and Foodservice Professionals, 406 Surrey Woods Drive, St. Charles, IL 60714; 800-323-1908; www.anfonline.org

FIRE/EMERGENCY MEDICAL All accreditation in these two areas is through: Department of Public Safety/Division of EMS, 1970 West Broad Street, P.O. Box 182073, Columbus, OH 43218-2073; 800-233-0785; www.ems.ohio.gov

HEALTH INFORMATION MANAGEMENT The health information management technology program is accredited by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) in cooperation with the American Health Information Management Association's Council on Accreditation: CAHIIM 233 N. Michigan Avenue, 21st Floor, Chicago, IL 60601-5800; 312-233-1100; www.cahiim.org

MEDICAL ASSISTING The Stark State College Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Medical Assisting Education Review Board (MAERB) Commission on Accreditation of Allied Health Education Programs; 1361 Park Street, Clearwater FL 33756; 727-210-2350; www.caahep.org

MEDICAL LABORATORY TECHNOLOGY Accredited by NAACLS (National Accrediting Agency for Clinical Laboratory Sciences): National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 5600 N. River Rd., Suite 720, Rosemont, IL 60018-5119; 847-939-3597; www.naacls.org

NURSING Full approval status from the Ohio Board of Nursing and is accredited by the Accreditation Commission for Education in Nursing, Inc. (ACEN – formerly NLNAC), 3343 Peachtree Road, NE, Suite 850, Atlanta, GA 30326; 404-975-5000 (phone); 404-975-5020 (fax); www.acenursing.org, www.nursing.ohio.gov

OCCUPATIONAL THERAPY ASSISTANT PROGRAM Accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA): AOTA, 4720 Montgomery Lane, P.O. Box 31220, Bethesda, MD 20824-1220; 301-652-AOTA; www.aota.org

PHYSICAL THERAPIST ASSISTANT PROGRAM Accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association: Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association, 1111 North Fairfax Street, Alexandria, VA 22314; 703-706-3245; www.captionline.org; www.apta.org

RESPIRATORY CARE The respiratory care program is accredited by the Commission on Accreditation for Respiratory Care (CoARC): 1248 Harwood Road, Bedford, TX 76021-4244; 817-283 2835; www.coarc.com

INFORMATION TECHNOLOGIES

ADMINISTRATIVE OFFICE PROFESSIONAL and LEGAL ASSISTING Accredited by the Accreditation Council for Business Schools and Programs, 11520 West 119th Street, Overland Park, KS 66213; (913) 339-9356; info@acbsp.org; www.acbsp.org

JUDICIAL REPORTING (Day), BROADCAST CAPTIONING, AND ONLINE PROGRAMS Accredited by Council on Approved Student Education National Court Reporters Association (NCRA): NCRA, 8224 Old Courthouse Road, Vienna, VA 22182-3808; 703-556-6272; www.ncraonline.org

eSTARKSTATE APPROVAL

Online degrees offered by Stark State College have been approved by The Higher Learning Commission, 230 South LaSalle Street, Suite 7-500, Chicago, Illinois 60604-1411; 312-263-0456 or 800-621-7440; Fax 312-263-7462; info@hlcommission.org; www.hlcommission.org

EDUCATION

EARLY CHILDHOOD EDUCATION Approved by the Ohio Department of Education: Certification and Licensure, Ohio Department of Education, 25 South Front Street, Columbus, OH 43215; 614-466-3593; www.ode.state.oh.us

HUMAN AND SOCIAL SERVICES

CRIMINAL JUSTICE (LAW ENFORCEMENT ACADEMY - BASIC TRAINING COURSE) Approved by the Ohio Peace Officer Training Academy (OPOTC) www.OhioAttorneyGeneral.gov

HEALTH

The massage therapy program has a current Certificate of Good Standing from the State Medical Board of Ohio, 30 East Broad Street, 3rd Floor, Columbus, Ohio 43215-6127, 614-466-3934, Fax: 614-728-5946, www.med.ohio.gov

WORKFORCE DEVELOPMENT

STATE TESTED NURSE AIDE (STNA) TRAINING PROGRAM Approved by the Ohio Department of Health (ODH); www.odh.ohio.gov

Information about the approval process for listed programs may be requested from the respective division office or by contacting the approving agency directly.

ADMISSION PROCEDURES

Follow the following admissions steps, and if you need help along the way, give us a call at 330-494-6170 and ask for Admissions.

Apply for admission

Complete your application online at www.starkstate.edu.

Submit your documents

To register for courses you'll need to supply your official high school transcript – contact your high school guidance office to get your records – and these, if they apply for you:

- GED certificate and scores (bring the originals to Admissions, and we'll make a copy)
- Official transcripts from all colleges you previously attended (transfer students only)
- Selective Service number (males ages 18-26; register or receive a number at www.sss.gov or call toll-free 847-688-2567)

Placement assessment

Provide your ACT scores (if you've taken the test within the last two years)

–OR–

Set up an appointment to take the COMPASS assessment; call 330-494-6170 or stop in S305.

–OR–

Have the results of any COMPASS assessment you've taken in the past two years at another college or university sent to the Office of Admissions/Student Services.

Apply for financial aid

You'll need to complete the FAFSA (Free Application for Federal Student Aid) to apply for financial aid. Go to www.fafsa.gov and use Stark State College's school code, 011141.

Visit the Financial Aid/Registration Office in S308 or the financial aid webpage at www.starkstate.edu/finaid for more detailed information.

New student orientation

You're required to complete a new student orientation before you can register for classes. Register for an in-person session (the best way to get your questions answered) or an online orientation at www.starkstate.edu/orientation. You'll need your student identification number to reserve your seat.

See how Stark State's tuition compares to other colleges and universities: www.starkstate.edu/tuitioncomparison.

TRANSFER APPLICANTS

Transfer credit will be accepted for successfully completed college-level courses from institutions of higher education which are accredited by the Higher Learning Commission or other regional accrediting commissions recognized by the Council On Higher Education Accreditation (CHEA). Transfer credit will be evaluated upon receipt of an official transcript.

TRANSIENT/GUEST STUDENTS

A transient/guest student is a student who plans to enroll at Stark State College on a temporary basis. Follow these steps to complete the admissions process:

1. Complete a Stark State College application. The application is available online at www.starkstate.edu or by contacting the Office of Admissions/Student Services at 330-494-6170.
2. Receive academic advising and approval from home institution for course(s) planned for enrollment at Stark State. Submit written approval from home institution to Stark State College Academic Records/Registrar's Office indicating the course(s) for enrollment.
3. Meet with a Stark State admissions counselor to review enrollment process. Contact the Office of Admissions/Student Services at 330-494-6170 with questions.

INTERNATIONAL STUDENT ADMISSIONS

Stark State College welcomes qualified students from other countries and seeks to make their educational experience pleasant and meaningful. All admissions requirements must be completed two months prior to start date.

1. In addition to those records mentioned under "Admissions Procedures" for all students, the following is required of the international student—
 - Proof of English language proficiency. Submit scores from the Test of English as a Foreign Language (TOEFL). This test is administered throughout the world in major cities. Registration materials for the test may be obtained by applying to TOEFL, Box 899, Princeton, NJ 08541.
 - Proof of adequate finances to meet the costs of fees, books, health insurance, room and board off-campus, transportation and personal expenses while attending Stark State College.
 - Proof of satisfactory completion of a program of education which is equivalent to high school in the United States. Any degree, diploma or certificate should be supported by a certified copy of the document and a translated copy where the original is not English.
 - All foreign transcripts and documents must be translated into English and validated by an appropriate international translating agency.
 - A copy of your VISA/passport and admission number on your I-94 if currently in the United States.
2. Upon receipt of the aforementioned documents, the applicant for admission as an international student will receive a conditional acceptance letter. The acceptance is conditioned upon the applicant transferring adequate finances to Stark State College, which will be held in trust for the student. The student may withdraw trust account funds to meet reasonable expenses while attending Stark State College. The remainder of the trust account will be returned to the student upon graduation, transfer to another college or termination of attendance and departure from the United States.
3. Upon the receipt of funds from the applicant, the College will forward a letter of acceptance and the forms necessary to obtain a student visa.
4. To maintain a satisfactory student status at Stark State College, the international student must
 - be taking a full course of studies,
 - make satisfactory progress toward the degree goal, and
 - maintain a final balance to cover tuition and fees in the student's trust account at the College.

mystarkstate PORTAL AND BANNER SELF SERVICE

The mystarkstate Web portal provides students with Web access to the College's student system, including a full suite of Web-based self-service capabilities:

- review enrollment information
- search for and register for classes
- view midterm and final grades
- view degree audit evaluation
- check registration and financial account holds
- check financial aid status and award amount
- pay tuition with credit card or check
- change personal information
- request a Stark State College transcript or enrollment verification
- track status of documents submitted for financial aid
- view advisor and program information

The mystarkstate portal is a service-oriented Web portal environment that is the single focal point for College electronic communication, information and services. The portal provides a single access point and single sign-on for many services available at Stark State College, including a full suite of Web-based Banner Self Service capabilities, ANGEL and email.

Note: NEW students must enroll in person for classes.

ACADEMIC ADVISING

The academic advising process at Stark State College is a significant aspect of student development. More than helping schedule courses, this process helps students fulfill their potential. To achieve this objective, faculty and counseling personnel are available to advise students in person or online. Every faculty member is an advisor to students enrolled in his/her course. The faculty member is the best source of information pertaining to a course. Students enrolling for 21 or more credit hours must have an academic advisor's signature.

Depending on student need, the academic advising process may involve

- analysis of the student's long-range aspirations, goals and abilities
- analysis of educational and career objectives
- selection of academic major
- planning course sequence in academic major
- class scheduling
- continuous assessment and possible referral

PLACEMENT TESTING

Every first-time Stark State College degree-seeking student is required to take the COMPASS exam unless he/she has ACT scores. Students may retake the COMPASS test once per academic year; however, once a student has begun a course based on COMPASS placement, he/she may not retest in that area. Students with applicable transfer credits are not required to test in that area.

REQUIRED COURSE PLACEMENT

First-time SSC degree-seeking students are required to complete all developmental courses into which they are placed by COMPASS or ACT scores and that are required by their programs, beginning with their first semester of credit enrollment and continuing for all subsequent semesters to completion. Reading proficiency is required of all students as determined by placement or course completion. Exceptions may be made on a case-by-case basis for a student returning after an absence at the discretion of the subject department chair or designee.

TRANSCRIPTING CREDIT FOR PRIOR LEARNING

Credit can be awarded for demonstrated college-level learning. Students applying for credit

1. must provide documentation to support the learning,
2. must have documentation evaluated by the appropriate college personnel, and
3. will have this credit recorded on his or her transcript after the student successfully completes 12 hours at Stark State College, if credit is awarded. Successful completion is defined as a "D" or better.

For more information, contact the Office of Admissions/Student Services.

CREDIT BY EXAMINATION (PROFICIENCY TESTING)

Students who can demonstrate ability and knowledge in a particular subject area may establish credit in certain courses without enrolling in them. This is done by taking a special examination or performing a special assignment, or both, through the appropriate department. An examination fee is assessed. No letter grade is given. Students may take the exam only once per course. Students enrolled in a course are not eligible to take a proficiency examination for the course after being enrolled for 20 calendar days or more for a regular term, and seven days or more for an eight-week term.

ADVANCED PLACEMENT

The College accepts credits earned while in high school as measured by the College Entrance Examination Board's Advanced Placement (AP) program. Students must score three or higher on a subject-area examination. Contact the Office of Admissions/Student Services at 330-494-6170 for additional information.

CLEP CREDIT BY EXAMINATIONS

The College will award comparable academic credit to registered students for successful completion of the College Entrance Examination Board's College Level Examination Program (CLEP) general and subject-area examinations. Contact the Office of Admissions/Student Services at 330-494-6170 for additional information.

ACADEMIC OUTREACH AND SATELLITE CENTERS

What does academic outreach mean to Stark State College? Quite simply, it means that we understand the importance of making college education accessible to you in your community.

The College is committed to serving students of all ages where they live and work by providing access to transferable higher education at our satellite centers. The College has satellite centers in Alliance, Barberton, Carrollton and Downtown Canton. Each satellite center offers students the same convenience, affordability, quality faculty and individualized attention as our main campus. Satellites also offer personalized service throughout the admissions process, and the convenient location and parking can save you money on gas.

We look forward to helping you take the first step to starting college and meeting your education and career goals. Financial aid and scholarship opportunities are available. Please call 330-494-6170 or visit www.starkstate.edu/satellites to explore the satellite location that would best meet your needs.

COLLEGE CREDIT PLUS

High school students from partner high schools may enroll in College Credit Plus courses (formerly known as Dual Enrollment.) These courses may be offered at their high school, online or at the College. In all cases, they can earn the same transferable college credit. Students must meet the College entrance testing requirements (COMPASS or ACT) and fulfill all prerequisites in order to enroll. Courses are taught by College-credentialed faculty who use the College textbook, syllabus and learning outcomes. Upon successful completion of the course, the student earns college credit as well as high school credit. For more information visit www.starkstate.edu/collegecreditplus.

COLLEGE TECH PREP

In an attempt to ease the transition to college for students in career-technical education, the state of Ohio, through collaboration between the Ohio Board of Regents and the Ohio Department of Education, has divided the state into six regional centers. Stark State College now partners with Kent State University, the University of Akron and Youngstown State University in the newly-formed East Central Region.

Through this joint venture, the four post-secondary institutions have come together in a unique partnership with the goal of supporting students, teachers, counselors and administrators. The main purpose of the collaboration is to create meaningful articulation agreements regionally with secondary high schools and career technical planning districts.

As the East Central Regional Center develops, Stark State looks forward to being a valuable partner in assisting northeast Ohio students in accessing earned college credits, increasing the number of college graduates and creating a highly qualified, well-paid workforce in Ohio.

FULL-TIME STUDENT

A full-time student is one who is officially enrolled in Stark State College for a minimum of 12 semester hours of course work in fall or spring semester or six hours in summer semester. (Please note that the definition of a summer full-time student may vary for financial aid purposes.)

PART-TIME STUDENT

A student enrolled in 11 semester hours of coursework or fewer during a fall or spring semester is considered a part-time student. Enrollment of five semester hours or fewer during a summer semester is considered part time.

STUDENT ID CARDS

Identification cards will be mailed to all students who apply to the College when they are accepted. This card also serves as the student's library card. Students are expected to carry ID cards at all times. Loss or theft of an ID card should be reported to the Academic Records/Registrar's Office.

STUDENT RESPONSIBILITY

Students are responsible for being familiar with and adhering to all College Policies and Procedures as published on the College website at www.starkstate.edu/policies. The site is searchable by opening the link marked Complete P & P (pdf), then right-clicking on the document and typing in the search phrase listed above. Students without internet access may use open labs to access www.starkstate.edu/policies. Requests for printed copies of policies and procedures, or questions regarding any policy or procedure, should be directed to the Office of Admissions/Student Services.

STUDENT SERVICES

Stark State College provides non-instructional services to students. College faculty and staff support the philosophy, objectives and goals of the College and out of concern for students and their progress toward educational and occupational goals, the College has organized a program of services and activities to assist our students in making full use of the total educational program.

COMPUTER LAB USAGE GUIDELINES

Use of computing facilities at Stark State College is a privilege. Users are subject to compliance with certain principles designed to assure that all users have reasonable access to facilities. Students and others authorized to use the computer labs must read and agree to the terms of the guidelines prior to using any College computer equipment. The computer lab usage guidelines have been instituted to ensure that the action of any one user will not adversely affect any aspect of the work or computer usage of another.

Abuse of computing privileges is subject to disciplinary action. Disciplinary action may include loss of computing privileges and other disciplinary sanctions up to and including discharge and/or dismissal. An abuser of the College's computing resources may also be liable for civil or criminal prosecution.

Computer lab usage guidelines are available from the Office of Admissions/Student Services, from the staff of any of the computer labs, at www.starkstate.edu and in the Student Handbook.

HELP DESK

The Help Desk provides technical support on systems used at the College. Access the Help Desk from mystarkstate, via phone at Ext. HELP or in person in Room B219.

OFFICE OF MULTICULTURAL STUDENT AFFAIRS

Stark State College provides services to multicultural students to maximize access for educational opportunities and to create a campus environment that is representative of the racial and ethnic diversity in society at large. The goal of this commitment is to assist multicultural students in reaching personal, academic and career goals at Stark State and beyond. The Office of Multicultural Affairs is available to provide

- academic, personal and group advising
- referrals for scholarships, financial assistance, career counseling, tutoring, mentoring and internship programs
- coordination of various services with academic and co-curricular Stark State offices
- coordination of communication between the student services office and the multicultural student community
- a liaison between Stark State and various community agencies
- promotion of cultural diversity programs

To schedule an appointment, call the Office of Multicultural Student Affairs at 330-494-6170, Ext. 4274.

STARK STATE COLLEGE STORE

Textbooks, supplies and retail items are available in the College Store. Regular store hours are Monday through Thursday, 8 a.m. to 7 p.m. and Friday, 8 a.m. to 3:30 p.m., or as posted. The College Store may be accessed online at <http://shop.starkstate.edu/>.

OPEN LABS AND WIRELESS ACCESS

Several open computer labs are available for student use. Wireless Internet access also is available throughout the College.

STUDENT CONDUCT

When a student enters Stark State College, it is taken for granted by College authorities that an earnest purpose exists, and that the student's conduct will demonstrate that assumption. If, however, the student should be guilty of unbecoming conduct, academic dishonesty, or should neglect academic duties, the College administration will take such action as the particular offense requires. College disciplinary action may include (a) informal reprimand, (b) formal reprimand, (c) administrative probation, (d) a definite period of suspension, (e) an indefinite period of suspension, and (f) expulsion.

STUDENT DIRECTORY INFORMATION

A student's directory information includes the following information and may be released without the student's consent: name, home address, college email address, phone number, major, status (including dates of attendance, full-time/part-time, withdrawals, hours enrolled, degrees awarded and honors received, including Phi Theta Kappa, Dean's List, distinction, high distinction, etc.).

Please note that students have the right to withhold the release of directory information. To do so, a student must complete a Request for Non-Disclosure of Directory Information form available on mystarkstate.edu under "personal information" or in the Academic Records/Registrar's Office.

Before placing a "no release" designation on records, students should note

- The College receives many inquiries for directory information from a variety of sources outside the institution including prospective employers, news media, honor societies, and insurance companies. Placing a "no release" designation on your record will preclude release of such information.
- A "no release" designation can apply to all elements or individual elements the student chooses to withhold.

Parents do not have an automatic right to information on the student attending Stark State College, even if the student is legally a minor under the age of 18. Parents do have the right to this information if the student is financially dependent on the parent and the parent can show proof of this by his or her most recent federal income tax return.

STUDENT EMAIL

Stark State College provides email accounts for all students. Access is available from any Web-enabled computer at the College, at home or any other location that has access to the internet and a Web browser. Information and access to the student email site is at <http://email.starkstate.net>

STUDENT PRIVACY REGULATIONS

The College has implemented the statutory requirements pertaining to the access, inspection, and review of student records in accordance with the Family Education Rights and Privacy Act of 1974.

STUDENT RECORDS

Student records include all official records, files and data directly related to a student who has attended classes at Stark State College. This includes all material that is incorporated into the student's cumulative record folder, which is intended for College use or to be available to parties outside the College, and specifically including, but not necessarily limited to, identifying data, academic work completed, level of achievement (grades, standardized achievement test scores), attendance data, scores on standardized intelligence, aptitude and psychological tests, interest inventory results, health data, family background information, teacher or counselor ratings and observations and verified reports of serious or recurrent behavior patterns.

STUDENT SUCCESS DIVISION

The Student Success Division provides support programs to assist students in achieving their academic goals at Stark State, including:

CONNECTION CENTRAL

Connection Central puts students in touch with the resources and support necessary to be a successful student. Students can drop by room G106 to receive personalized support that will help them navigate their college journey.

CONNECT TO COMPLETE SUCCESS COACHING

First time, full time students at Stark State College are assigned a Success Coach through the Connect to Complete Program. For their first year at Stark State, a Success Coach works with students to help them visualize their future and determine what steps need to be taken to fulfill their goals. Students will learn what it takes to be a successful college student. Success Coaches will guide students on the pathway toward success by supporting them in learning how to use their strengths and to overcome challenges.

DIGITAL LIBRARY AND LEARNING RESOURCE CENTER

The Stark State Digital Library, adjacent to the College Atrium, is a collection of digital information, resources, links and services as well as people available to assist students. A librarian provides assistance and computer services to students and classes. Refer to the College Web site for hours and more information. The Learning Resource Center, which houses a collection library and other resources, is located east of the main student parking lot and serves both Stark State College and Kent State University-Stark Campus. Refer to the College Web site for current hours or call 330-499-9600 for library information.

DISABILITY SUPPORT SERVICES

Stark State College provides equal access to educational programs and services for all qualified students with disabilities. The Disability Support Services staff assists students by providing academic support services and accommodations, academic advising, admissions and financial aid assistance and career guidance. The College's Disability Support Services Office coordinates various services with academic and non-academic offices and serves as a liaison between the College community and state and local agencies.

Students are required to provide documentation of their disability, such as psychological, medical or school evaluations, to help the Disability Support Services department provide appropriate academic accommodations and support services. Call Disability Support Services at 330-494-6170, Ext. 4935 for information or to schedule an appointment.

E-LEARNING ORIENTATION (WEB-BASED COURSES)

Students enrolling in Web-based courses for the first time are required to complete "Succeeding Online," a required online orientation class, the first time they take a Web 2, 3 or 4 class. More information can be found at www.starkstate.edu/estarkstateorientation.

MILITARY SERVICES

The Military Services department provides comprehensive enrollment and educational services to active duty military members, veterans and their dependents. These services include admissions, financial aid, career and academic advising support, as well as assistance with applying for VA educational benefits.

STUDENT SUPPORT AND JUDICIAL AFFAIRS

Student Support and Judicial Affairs Intervention Services assists students as they pursue their academic goals by promoting academic and personal development through individual consultation, workshops, outreach services, support groups, and referrals offered by a trained, licensed, mental health professional. These services are designed to provide support on an array of concerns including but not limited to mental health, substance abuse, behavioral concern and general lack of resource issues.

Additional services include training for the campus community in recognizing and handling students in need of assistance; developing and monitoring intervention plans; and providing emergency crisis counseling services. Student Support and Judicial Affairs is the initial point of contact for college-wide activities related to student due process and judicial proceedings within campus safety and security process.

THE TESTING CENTER

The Testing Center in M202 offers both computer-based and pencil-and paper testing for specific courses. Some courses require students to take computer-based tests in the Testing Center during a timeframe of usually three to four days. This service provides more instructional time in class, as well as an opportunity for students to become familiar with this technology. This arrangement is an advantage for students, since many licensure exams are now computer-based.

TRiO – Student Support Services (SSS)

The TRiO student support services project is a federally funded program offering a wide variety of support and academic services to qualifying students. Participants are low-income, first generation college students who require academic support. Some of these student also may have disabilities. TRiO provides education and career planning, advising, tutoring and educational counseling.

TRiO – Upward Bound Math and Science (UBMS)

UBMS provides educational and academic support to area high school students to provide them access to Stark State and assist them in learning about going to college. These students spend six weeks during each summer on our campus, taking classes and adapting to the college environment, preparing themselves for entry to college after high school graduation.

TRiO – Focus on African American Males in Education (FAME)

FAME is designed to promote college-going among African American males by strengthening social skills, emotional well-being, and academic achievement through high school and college academic support systems.

For the most current academic and student conduct policies, as well as additional policies and procedures of interest to students, go to www.starkstate.edu/policies. Printed copies may be requested in the Office of Admissions/Student Services.

CAREER DEVELOPMENT

The Career Development Office at Stark State College is dedicated to empowering students and alumni in developing career planning and job search skills, and facilitating mutually beneficial relationships between employers, students and alumni. All students are encouraged to become familiar with the Career Development Office (S100) during their first semester.

The Career Development Office provides

- current information on job search materials and techniques
- information on employers for job search preparation
- information on various careers in the form of workshops, software, DVDs and online career resources

JOB SEARCH ASSISTANCE

The Career Development Office provides assistance on all aspects of the job search. This assistance includes help with resumes, cover letters, interviewing skills and other related topics.

STUDENT AND PART-TIME JOBS

The Career Development Office maintains a job board outside of Room S100 where student and part-time jobs are posted. Notices of job openings are received from area employers and individuals and are available to all interested students. Work Study jobs on campus are processed through the Human Resources Office.

ONLINE JOB BOARD (COLLEGE CENTRAL NETWORK)

Approved students and alumni are eligible to use the Stark State College online job board after completing a registration process. Once registered, students/graduates will be able to search jobs and email a resume to employers 24 hours a day, seven days a week. Employers will also be able to search resumes and contact candidates directly for job opportunities. All students are encouraged to meet with a career development representative to learn more about College Central Network.

PROFESSIONAL WORK EXPERIENCE

The Career Development Office works with students to help them connect with employers for professional work experience opportunities, such as internships. Internships are designed to help students obtain experience in their field while pursuing an education. Employer needs and requirements may vary. Contact the Career Development Office for more information.

CAREER GUIDANCE PROGRAM

The career guidance program can help those who are

- just entering Stark State College and unsure about career objectives
- disenchanted with present or past career choices
- preparing to make a career transition

The program will measure aptitudes, interest and values and may be summarized with a counseling session. Visit the Stark State College MyPlan page at www.starkstate.myplan.com to access this career guidance tool. For additional assistance, contact the Career Development Office.

STUDENT LIFE

The College's goal is to provide the finest intellectual experience in an environment that highlights the fullest individual and social development of each student. All students have the opportunity to participate in student activities such as student government, student clubs and other worthwhile and interesting events.

PHI THETA KAPPA HONOR SOCIETY

Phi Theta Kappa is an international honor society for two-year colleges and is similar in structure and operation to Phi Beta Kappa at four-year institutions. Phi Theta Kappa provides its members with opportunities in the areas of scholarship, leadership, service and fellowship. The society has more than 3 million members and nearly 1,300 chapters worldwide. The Beta Gamma Epsilon chapter of Phi Theta Kappa was established at Stark State College in 1996. To qualify for membership, a student must have a cumulative GPA of 3.75 or higher in at least 16 hours of degree-related courses. To continue membership, a student must maintain a cumulative GPA of 3.40. The initial membership fee provides lifetime membership at the local, regional and international levels. Phi Theta Kappa members are encouraged to participate in honors and service projects at all levels of the society.

KAPPA DELTA PI HONOR SOCIETY IN EDUCATION

Kappa Delta Pi has more than 50,000 members in 550 collegiate and professional chapters in colleges, universities, and communities throughout the United States and around the world. The organization recognizes and promotes excellence in education. The Alpha Delta Kappa chapter of Kappa Delta Pi Honorary Society in Education was established at Stark State College in 2007. Members exhibit outstanding leadership and scholarship in education.

PSI BETA PSYCHOLOGY HONORS CHAPTER

Psi Beta Psychology Honor Society is a sister organization of Psi Chi and is designed to serve students at the community college level. The purpose of the Stark State College chapter of Psi Beta is to serve as a means of national recognition of the student's early interest in and dedication to the field of psychology and to scholastic achievement, provide opportunities to become acquainted with and involved with the larger field of psychology, and provide a forum for developing one's perspective about psychology and for building a sense of community and identity with others in the field. Additional goals include enhancing leadership skills and encouraging research; provide greater opportunity for student/faculty interaction outside the classroom, and to benefit the campus and community through programs and services. Members have earned an overall cumulative grade point average of at least 3.25, including all transfer credits, have completed at least one introductory psychology course and 12 semester hours total college credit and have achieved a minimum 3.5 grade point average in core psychology courses. Finally, members must maintain high standards of personal behavior and integrity and receive a 3/4 affirmative vote of the membership attending a regular chapter meeting. For more info, call 330-494-6170, Ext. 4033.

INTERFAITH CAMPUS MINISTRY

Interfaith Campus Ministry was formed in 1967 and serves all persons on the campus – students, faculty and staff – through personal counseling (faith issues, crisis, family, stress, loneliness, communication), support groups and study groups. Interfaith is a link between the campus, religious communities and area resources. Interfaith promotes respect for the dignity of each person and understanding and acceptance of persons of diverse faith, traditions and cultures. Interfaith responds to personal concerns in a confidential atmosphere. Interfaith sponsors the Stark Campus Preschool Child Center, located across Frank Avenue.

CAMPUS PRESCHOOL CENTER

The Stark Campus Preschool Child Center is operated by Interfaith Campus Ministry for students, faculty and staff of Stark State College and the community. Children may be enrolled by the semester. The center is located at the John Knox Presbyterian Church, 5155 Eastlake N.W., across the street from the campus. For child care rates, hours, registration information and more, call 330-499-0909.

STUDENT GOVERNMENT

An elected student government plans and coordinates extracurricular programs and social affairs for students. The student government assists the College faculty and administration in making rules and regulations by providing student opinion and advice.

STUDENT ORGANIZATIONS/CLUBS

An important part of student life at Stark State is involvement in student organizations. There's something for everyone at Stark State; just take a look. www.starkstate.edu/content/student-organizations

- Amateur Radio Society
- American Sign Language (ASL) Club
- American Society of Mechanical Engineers (ASME)
- Association for Medical Laboratory Technicians (AMLT)
- Beta Beta Beta (Tri Beta) Biological Honor Society
- C3
- Chess Club
- Criminal Justice Student Association
- Culinary Club (Epicurean Society)
- Cultural Diversity Club
- Enactus
- Engineering Technology Club
- Environmental Club
- Future Speakers of America
- Heads Up
- High Technology Crime Investigation Association (HTCIA)
- Human and Social Services Student Association
- Institute of Electrical and Electronic Engineers (IEEE)
- Institute of Management Accountants (IMA)
- International Association for Hydrogen Energy
- International Club
- Kappa Delta Pi International Honor Society in Education
- LGBTs Global
- Massage Therapy Club
- Multimedia Group
- Native American Indian Organization
- Phi Theta Kappa Honor Society
- Physics and Astronomy Club
- Psi Beta Psychology Honors Chapter
- Respiratory Therapy Club
- Rotaract (Alliance Satellite Center)
- Ski and Snowboarding Club
- Social Science Club
- Society of Manufacturing Engineers (SME)
- Society of Women Engineers (SWE)
- Software Development Guild

For the most current academic and student conduct policies, as well as additional policies and procedures of interest to students, go to www.starkstate.edu/policies. Printed copies may be requested in the Office of Admissions/Student Services.

- Stark Raving Writers
- Stark Voices – Student Publication/Newspaper
- Stark State College Association of Medical Assistants
- Stark State College Student Chapter of the American Chemical Society
- Student American Dental Hygienist Association (SADHA)
- Student Connection Club
- Student Dietary Association at Stark State College
- Student Government Association/InterClub Council
- Student Health Information Management Association (SHIMA)
- Student Nurse Association (SNA)
- Student Occupational Therapy Assistant Club (SOTA)
- Student Physical Therapist Assistant Club (SPTA)
- The Edge
- TOPS (Taking Off Pounds Sensibly)
- Veterans Club at Stark State College
- Women of Color

FINANCIAL AID

The Financial Aid Office is staffed with experienced professionals who can assist students in analyzing their particular situations and determining the appropriate avenue for financial assistance. The goal of the financial aid staff is to provide financial assistance to students who otherwise could not afford to attend college. Additional information about financial aid is available at www.starkstate.edu/finaid or in the Financial Aid Office located in S308.

APPLICATION FOR FINANCIAL AID CHECKLIST

Review the following checklist to determine if you have completed all necessary steps for starting classes in the coming semester.

- Apply for Admission - Complete your Stark State College application online at www.starkstate.edu.
- Apply for Financial Aid - All students applying for financial aid must complete the Free Application for Federal Student Aid (FAFSA). Apply via www.fafsa.gov. The Stark State College school code is 011141.
- Apply for Student Loan - If you are interested in a federal student loan, submit a Direct Loan request form.

REQUIRED FORMS AND PRIORITY DATES

Summer Session

March 1 FAFSA filing deadline
 April 1 Required documentation deadline
 May 1 Loan request deadline

Fall Session

May 1 FAFSA filing deadline
 June 1 Required documentation deadline
 July 1 Loan request deadline

Spring Session

Oct 1 FAFSA filing deadline
 Nov 1 Required documentation deadline
 Dec 1 Loan request deadline

LATE APPLICANTS

Applications received after these dates will be considered for aid, but students may not receive funds until after the start of the semester. That means you should be prepared to use your own funds to pay for a portion of your tuition and all of your books before each semester's payment deadline.

FEDERAL AND STATE AID PROGRAMS

The following programs are grants and do not require repayment:

Federal Pell Grant (PELL)

An award of \$626 to \$5,775 per year, based on financial need. Eligibility is based upon need, enrollment and cost of education. The maximum can change yearly and depends on program funding.

Federal Supplemental Education Opportunity Grant (FSEOG)

Allocation of funds is at the discretion of Stark State. Awarding of funds is based on need and application date. Award amounts vary, up to \$400 per year. Apply through the FAFSA. According to federal regulations, students must be Pell-eligible to receive FSEOG funds. You must apply early! Funds are limited and are distributed on a first-come, first-served basis.

Federal Work Study Program (FWSP)

Allows students to be employed at the College to earn money for educational expenses. Awards are based on financial need; submit a written request to the Financial Aid Office. An award does not guarantee earnings; students are paid with a bi-weekly paycheck for hours actually worked.

Military Grants

Branches of the U.S. military offer various financial aid opportunities.

Veterans' Educational Benefits

Stark State College is fully accredited under the laws that provide educational benefits for veterans. The Academic Records/Registrar's Office certifies veterans' eligibility.

Scholarships

Stark State College offers a wide variety of scholarship opportunities for qualified students. Additional information is available at www.starkstate.edu/scholarships.

Social Service Programs

Bureau of Vocational Rehabilitation Educational assistance may be available for students with special needs. Call the Canton (330-438-0500) or Akron (330-643-3080) office for more information. Workforce Initiative Association (WIA) and Trade Adjustment Assistance (TAA) for individuals who recently lost jobs or are entering the workforce after an extended period of unemployment. You must complete the FAFSA to determine eligibility for grants before being considered for WIA and TAA funding. For information about WIA and TAA, contact the Employment Source at 330-433-9675.

FEDERAL DIRECT LOAN PROGRAMS

A Federal Direct Loan offers freshman students up to \$5,500 and sophomores up to \$6,500 per year. Students pursuing a one-year certificate will remain at freshman level for borrowing purposes. This is a loan and must be repaid. Interest rates vary annually. If you already have a Direct Loan, borrowing a new loan will not affect the rate or terms of your previous loan(s). You may qualify for a subsidized and/or an unsubsidized Direct Loan up to the amounts listed above.

Subsidized Direct Loans

These loans are based on financial need, therefore some students may not qualify. With a subsidized Direct Loan, no interest accumulates and no repayment is required as long as the student is enrolled in college at least half time.

Unsubsidized Direct Loans

Students who do not qualify for a subsidized Direct Loan may borrow up to the maximum amounts designated on the award notification through an unsubsidized Direct Loan. Loan payments can be deferred as long as the student is enrolled at least half time. Interest will accrue and can be paid by the borrower while in school and during the grace and repayment period. Independent students have the option of borrowing an additional \$4,000 in unsubsidized loans.

Federal Parent Loan for Undergraduate Students (Federal PLUS)

The Federal PLUS program is for parents of dependent students. It is a loan in which family income is not taken into consideration; therefore, the program is open to almost any parent who has good credit. The parent can borrow up to the cost of the college education, less aid, at a variable rate of interest (currently not to exceed 9%). Repayment begins 60 days after the final disbursement of the funds, according to the terms negotiated by the bank. We recommend students first utilize all eligibility for grants and the Federal Direct Loans before receiving a federal PLUS. This is a loan and must be repaid. Funds are made in multiple disbursements and given to the parent(s) after tuition and fees have been paid.

Effective Fall 2012

STANDARDS OF ACADEMIC PROGRESS

Standards of Academic Progress (SAP) is a series of standards required to maintain eligibility for federal student aid. Requirements include components of completion of credit hours, grade point average (GPA), and maximum time frame as defined below. Students who do not meet these requirements will be disqualified from future financial aid.

SAP requirements

Stark State College requires that any student who applies for or receives federal financial aid makes satisfactory academic progress toward an Ohio Board of Regents (OBR) approved degree or certificate.

Satisfactory academic progress is measured as:

- Overall grade point average of 2.0
- Completion of 67% of the cumulative attempted credit hours, including hours of repeated coursework
- Completion of OBR approved degree or certificate within the number of required credit hours listed in the college catalog for the associate or certificate degree multiplied by 150%, as determined by the Financial Aid Office and includes accepted transfer credit hours and up to 30 attempted credit hours of required developmental coursework.

Successful grade completions are: A, B, C, UC, D, UD, CR

Unsuccessful grade completions are: F, W, IN, NC, NA

Failure to meet these measurements will result in the loss of federal financial aid.

Monitoring Progress

At the end of each term attended, a student's academic progress will be evaluated, based upon the standards listed above. If he or she fails to meet any of the above requirements, he or she will receive a notification letter from the college.

After the first term in which the requirements are not met, a student will be placed on financial aid warning for one subsequent term. During the warning period, the student will continue to be eligible for federal financial aid. The College encourages the student to meet with an academic advisor to assist the student with his or her educational goals.

After the second term in which the requirements are not met, a student will become ineligible for federal financial aid. In order to regain federal financial aid eligibility, a student will be required to pay for his or her classes out of pocket until he or she is able to reach the 67% completion rate and a cumulative 2.0 GPA.

Appeal Process

If a student has unusual or mitigating circumstances, he or she may submit an appeal requesting to continue to receive federal financial aid. Mitigating circumstances must be documented and approved by the Standards of Academic Progress Appeal Committee, made up of a financial aid representative, academic affairs representative, and student services representative. The appeal must be submitted by the last day to register in the term in which a student is applying for continued federal financial aid. A student may only submit two appeals during his or her time at Stark State College. Rare exceptions will be made to this policy.

If federal financial aid is reinstated as a result of the appeals process, a student is placed on probation for one term. During the probationary period, a student must complete all registered courses and achieve a 2.0 grade point average for each semester of the probationary period to remain eligible to receive federal financial aid. After one semester of meeting the probation requirements, the student will be placed on an academic plan and must continue to complete all registered courses and maintain a term 2.0 GPA. As long as a student is meeting the requirements of the academic plan, he or she will continue to receive aid. Once a student is at a 67% completion rate for all attempted courses and a 2.0 grade point average, he or she will go back to good standing.

Appeal Procedure

STEP ONE

A student must complete the Standards of Academic Progress Appeal form and submit it to the Financial Aid Office along with an explanation and documentation of the reasons for failing to comply with the stated academic standards. The explanation must include what improvements a student has made that will ensure future academic success.

STEP TWO

The Standards of Academic Progress Appeal Committee, comprised of a financial aid representative, academic affairs representative, and student services representative, will review the appeal and render a decision.

STEP THREE

A student will receive the written decision of the Academic Progress Appeal Committee within ten business days of the committee meeting. **The decision of the Standards of Academic Progress Appeal Committee is FINAL.**

The committee reserves the right to establish parameters as part of the approval process. This includes, but is not limited to, restrictions of credit hours or specific courses, mandatory advising, or adherence to an academic plan.

If a student is approved for financial aid, he or she is encouraged to seek an academic advisor to review an academic plan.

TUITION, FEES, METHODS OF PAYMENT, REFUNDS AND RESIDENCY REQUIREMENTS

Stark State College is committed to providing an excellent college education at an affordable cost to students. The College Board of Trustees, administration, staff and faculty work diligently to control costs and maintain efficiency of the College's operations.

The Board of Trustees of Stark State College reserves the right to revise the current schedule of tuition and fees at any time and without prior notice.

The tuition schedule for the 2015-2016 academic year is listed below and can be found online at www.starkstate.edu/tuition

Tuition and Fees 2015-16*

Effective summer 2015

TUITION*		FEES
Tuition includes instructional and general fees		For more info, visit www.starkstate.edu/tuition
Credit hours	Total tuition (Ohio residents)	REQUIRED FEES
1	153.60	Processing fee (one-time charge only) 95.00
2	307.20	Maintenance and campus security fee 35.00/sem (per individual semester, 4 or more credit hours)
3	460.80	
4	614.40	OTHER FEES (optional per student need)
5	768.00	Background check fee 35.00
6	921.60	Credit by examination fee..... 76.80/cr hr
7	1,075.20	Distance learning fee (W3/W4) 10.00/cr hr
8	1,228.80	Distance learning fee (W2)..... 5.00/cr hr
9	1,382.40	Locker fee 4.50/sem
10	1,536.00	Student installment fee 25.00
11	1,689.60	(Avoid installment fee by paying your bill in full by cash, check or credit/debit card.
12	1,843.20	For information go to www.starkstate.edu/sipp .)
13	1,996.80	PROGRAM/COURSE FEES
14	2,150.40	Some programs and/or courses require special fees
15	2,304.00	www.starkstate.edu/tuition
16 or more	In-state students add an additional \$153.60/cr hr	Stark State College reserves the right to revise the schedule of fees at any time without prior notice. Books, drawing instruments and other supplies are in addition to tuition fees.

*Out-of-state residents add \$129.00/cr hr to totals

Printed copies of the current schedule of tuition and fees may be requested from

- Office of Admissions/Student Services
- Academic Records/Registrar's Office
- Business Office
- Cashier's Office
- Financial Aid Office

FEES DESCRIPTIONS

Processing Fee

The processing fee covers the cost of applying to the College, student assessment, creation of a permanent student record and entering student information into the College's record-keeping system. The processing fee is a one-time fee payable upon first registration.

Maintenance and Campus Security Fee

This fee helps cover the costs of maintaining the College's buildings, grounds and security.

Instructional Fee (included in tuition)

The instructional fee supplements other sources of income to cover the cost of instruction and general operating expenses.

General Fee (included in tuition)

The general fee supplements state subsidies for general institutional services. A portion of this fee is designated to support technology and facilities.

Online Fee

The online fee helps cover the cost of the College's Learning Management System (ANGEL), hosting services and course design and development.

Out-Of-State Residents Tuition Surcharge

A tuition surcharge is assessed out-of-state students, in addition to the per credit hour in-state tuition.

Selective Service Fee

A surcharge is assessed for any eligible male student who has not provided his selective service number to the College. This surcharge is equal to the current Out-of-State Residents Tuition Surcharge.

Locker Fee

A limited number of lockers are available for student use, for a rental fee.

Student Installment Payment Plan Fee (SIPP)

Students electing to use the student installment plan to pay tuition and fees will be required to pay a non-refundable fee for the service.

Credit By Examination Fee

A student who can demonstrate ability and knowledge in a particular subject area may establish credit in certain courses without enrolling in them. This is done by taking a special examination or performing a special assignment, or both, through the subject department chair. An examination fee is assessed.

Background Check Fee

For those who need to obtain some of their educational training off campus at a hospital, day care center or other business, a background check(s) may be required. A fee is assessed to cover the cost of processing the background check.

Culinary Fee

The culinary fee is a fee established per course to cover the cost of consumable goods required for the specific course. Fees may vary by course.

Dental Hygiene Facility Fee

The dental hygiene facility fee supplements sources of income to cover the costs of dental hygiene instruction. The fee is charged each semester and is limited to dental hygiene students.

Respiratory Care Technology Fee

The respiratory care technology fee covers the cost of enhanced certification preparation for credentialing exams and certifications, as well as the cost of clinical simulation in the practicum course. Fees may vary by course.

Welding Fee

The welding fee supplements the purchase of equipment, consumables and supplies for welding instruction. Fees may vary by course.

Dietetic Technology Fee

The dietetic technology fee covers the cost of food materials and preparation methods for the specified course. Fees may vary by course.

Commercial Driver's License Fee

The CDL fee covers the cost of program tuition and class fees as well as state fees and semi rental for one CDL driving test. If the student does not pass the CDL test, he or she must pay for all fees associated with additional test attempts. This fee does not cover the student's required Department of Transportation physical or drug screen. Students are also responsible for the cost of the permit and any endorsements they wish to add.

Law Enforcement Academy Fee

The Law Enforcement Academy fee covers expenses for delivering academy courses.

Health Record Management Fee

This fee is used to cover costs of electronic filing and maintenance of personal health records. Personal health records are necessary for students to progress through their chosen program and gain access to clinical training sites.

METHODS OF PAYMENT

Payment of Fees

Payment of tuition and fees may be made in full, at the cashier's window, online, by mail or deposited in the payment drop box on the third floor of the Student Services Building. Fees may be paid with cash, check, money order, debit card, Visa/MasterCard/Discover.

Student Installment Payment Plan (SIPP)

Payment of tuition and fees may be made using the Student Installment Payment Plan (SIPP). A small, non-refundable fee is charged for this service.

Senior Citizens Waiver

Citizens who are 60 years of age or older and have paid the current processing fee may audit credit courses tuition-free on a space-available basis. All other fees are due when incurred.

Senior citizens will receive a 15% discount on course fees for non-credit continuing education courses by presenting their Golden Buckeye Cards at the time of registration. This discount applies to in-person registrations only and does not include special senior citizens classes or company-paid registrations.

REFUNDS

Refund Schedule

Students who wish to withdraw from courses in which they are enrolled and which are being conducted in accordance with the class schedule must complete academic withdrawal procedures to qualify for a refund.

The following regulations apply to refunds:

Full refunds are given to students who enroll in classes that are cancelled by the College. Full refunds are given to students if the College does not permit the student to enroll or continue in coursework. Fee refunds are automatic, and students are not required to complete academic withdrawal procedures.

Instructional fees, general fees, and tuition surcharge fees paid for 16-week semester courses are subject to refund to students who officially withdraw for valid reasons at the following rates

- a) Before the seventh day of the semester - 100% refund
- b) On the seventh through the ninth day of the semester - 80% refund
- c) On the 10th through the 16th day of the semester - 60% refund
- d) On the 17th through the 20th day of the semester - 40% refund
- e) On the 21st day of the semester and beyond - no refund

Instructional fees, general fees, and tuition surcharge fees paid for 10-week semester courses are subject to refund to students who officially withdraw for valid reasons at the following rates

- a) Before the seventh day of the semester - 100% refund
- b) On the seventh through the 11th day of the semester - 60% refund
- c) On the 12th through the 13th day of the semester - 40% refund
- d) On the 14th day of the semester and beyond - no refund

Instructional fees, general fees, and tuition surcharge fees paid for 8-week semester courses are subject to refund to students who officially withdraw for valid reasons at the following rates

- a) Before the seventh day of the semester - 100% refund
- b) On the seventh through the eighth day of the semester - 60% refund
- c) On the ninth through the 10th day of the semester - 40% refund
- d) On the 11th day of the semester and beyond - no refund

Instructional fees, general fees, and tuition surcharge fees paid for 5-week semester courses are subject to refund to students who officially withdraw for valid reasons at the following rates

- a) Before the seventh day of the semester - 100% refund
- b) On the seventh day of the semester and beyond - no refund

The first day of the semester is defined as the official starting date of the semester or portion of the semester. Days of the semester will be counted as any Monday through Friday that classes are in session. Weeks of the semester will be counted as starting on the first day of the semester and every week thereafter. Holidays, Saturdays and Sundays will not be included as days of the term for those refund sections counting days. Holidays, Saturdays and Sundays will be included as days of the term for those refund sections counting weeks. For those classes meeting only once a week on Friday, Saturday or Sunday, the 100% refund period will extend through the Tuesday after the first scheduled class or through the sixth day of the semester, whichever is later.

The Business Office will audit each registration. If fees are paid under mistake of law or fact, appropriate charges or refunds will be made. All refunds will be made within 30 days of withdrawal or schedule change.

Financial Aid Issues in Cases of Withdrawal or Non-Attendance

Students must maintain attendance in their scheduled classes to remain eligible for financial aid funds. Students who fail to maintain attendance in classes, who withdraw or are dismissed before 60% of the term has passed, will have all or a portion of their federal aid eligibility rescinded. This will likely result in monies needing to be repaid to the College and/or the U.S. Department of Education. Students who receive federal financial aid and do not attend classes will be dropped from their classes and have their financial aid cancelled or reduced. The federal government mandates that federal monies for non-attendees who receive federal financial aid be returned to the federal government. Attendance also will be documented throughout the semester to verify the last day attended in each class.

Medical Refunds

In the event of a severe or life threatening medical condition to the student or an immediate family member, a student may appeal for consideration above and beyond the normal refund policy. Such appeals must be made in writing no later than 30 days after the end of the semester and fully explain the circumstances involved and specify the consideration desired. The appeal must be accompanied by a signed physician's letter explaining the medical condition. Verbal or incomplete requests will be refunded according to the normal refund policy. All appeals will be reviewed within 30 days of receipt, and students will be notified of the determination in writing. Documentation should be provided to the Bursar's Office.

STARK STATE COLLEGE RESIDENCY REQUIREMENTS

Payment of non-resident tuition surcharge is required of any student who does not qualify as a permanent resident of Ohio, as defined by the Ohio Revised Code, section 3333-1-10: Ohio Student Residency for State Subsidy and Tuition Surcharge Purposes.

Intent, Authority and Definitions

It is the intent of the Ohio Board of Regents in promulgating this rule to exclude from treatment as residents, as that term is applied here, those persons who are present in the state of Ohio primarily for the purpose of receiving the benefit of a state-supported education while insuring that the same benefit is conferred on all bona fide domiciliaries of this state whose permanent residence and legal citizenship is in Ohio, and whose actual source of financial support is subject to Ohio taxation. This rule is adopted pursuant to Chapter 119 of the Revised Code, and under the authority conferred upon the Ohio Board of Regents by Section 3333.31 of the Ohio Revised Code.

For purposes of this rule, a "Resident of Ohio for all other legal purposes" shall mean any person who maintains a 12-month place or places of residence in Ohio, who is qualified as a resident to vote in Ohio and receive state welfare benefits, and who may be subjected to tax liability under Section 5747.02 of the Ohio Revised Code; provided such person has not within the time prescribed by this rule, declared himself or herself to be or allowed himself or herself to remain a resident of any other state or nation for any of these or other purposes.

The dependent child of a parent or legal guardian, or the spouse of a person who, as of the first day of a term of enrollment, has accepted full-time self-sustaining employment and established domicile in the state of Ohio for reasons other than gaining the benefit of favorable tuition rates, shall be entitled to in-state residency.

"Financial support" as used in this rule, shall not include grants, scholarships and awards from persons or entities which are not related to the recipient.

An "institution of higher education" as used in this rule shall mean any university, community college, technical institute or college, general and technical college, medical college or private medical or dental college that receives a direct subsidy from the State of Ohio.

General Residency for Subsidy and Tuition Surcharge Purposes

The following persons shall be classified as residents of the state of Ohio for subsidy and tuition surcharge purposes:

1. Dependent students, at least one of whose parents or legal guardian has been a resident of the state of Ohio for all other legal purposes for 12 consecutive months or more immediately preceding the enrollment of such student in an institution of higher education.

2. Persons who have resided in Ohio for all other legal purposes for at least 12 consecutive months immediately preceding their enrollment in an institution of higher education and who are not receiving, and have not directly or indirectly received in the preceding twelve consecutive months, financial support from persons or entities who are not residents of Ohio for all other legal purposes.
3. Persons who are living and are gainfully employed on a full-time or part-time and self-sustaining basis in Ohio and who are pursuing a part-time program of instruction at an institution of higher education. Under the state's new Forever Buckeyes program the in-state resident tuition rate applies to any Ohio high school graduate who returns to the state to enroll in an Ohio college and establishes Ohio residency.

Specific Exceptions and Circumstances

1. A person on active duty status in the United States military service who is stationed and resides in Ohio and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
2. A person who enters and currently remains upon active duty status in the United States military service while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
3. Section 3345.32 of the Ohio Revised Code requires that male students who are Ohio residents, and must register for selective service, verify that they have registered with the selective service in order to be considered in-state residents to attend Ohio public colleges and universities.
4. Any alien holding an immigration visa or classified as a political refugee shall be considered a resident of the state of Ohio for state subsidy and tuition surcharge purposes in the same manner as any other student.
5. No person holding a student or other temporary visa shall be eligible for Ohio residency for these purposes.
6. A dependent person classified as a resident of Ohio for these purposes shall continue to be considered a resident during continuous full-time enrollment, and until his or her completion of any one academic degree program.
7. In determining residency of a dependent student, removal of the student's parents or legal guardian from Ohio shall not, during a period of 12 months following such removal, constitute relinquishment of Ohio residency status otherwise established under paragraph (C) (1) of this rule.
8. Any person once classified as a non-resident, upon the completion of 12 consecutive months of residency in Ohio for all other legal purposes, must apply to the institution he or she attends for reclassification as a resident of Ohio for these purposes if such person in fact wants to be reclassified as a resident. Should such person present clear and convincing proof that no part of his or her financial support is or in the preceding 12 consecutive months has been provided directly or indirectly by persons or entities who are not residents of Ohio for all other legal purposes, such person shall be reclassified as a resident. Evidentiary determinations under this rule shall be made by the institution which may require, among other things, the submission of information regarding the source of a student's actual financial support to that end.
9. Any reclassification of a person who was once classified as a non-resident for these purposes shall have prospective application only from the date of such reclassification.
10. A person who is transferred by his employer beyond the territorial limits of the 50 states of the United States and the District of Columbia while a resident of Ohio for all other legal purposes and his or her dependents shall be considered residents of Ohio for these purposes as long as Ohio remains the state of such person's domicile.
11. A person who has been employed as a migrant worker in the state of Ohio and his or her dependents shall be considered a resident for these purposes provided such person has worked in Ohio at least four months during each of the three years preceding the proposed enrollment.

ACADEMIC POLICIES AND PROCEDURES

Academic policies and procedures are designed to assist Stark State students in achieving academic success. The governance of the College routinely reviews policies and procedures to support student success and to promote the academic quality of our College.

All current and official policies and procedures are maintained on the Stark State College website at www.starkstate.edu/policies at all times, including but not exclusive to

Academic Forgiveness
Academic Honors
Academic Probation and Dismissal
Academic Regulations
Affirmative Action Policy
Appeals
Anti-Harassment
Audits
Catalog in-force and Change of Major
Class Attendance
College Computing Resources
Concealed Weapons
Course Substitution by Petition
Credit by Proficiency Exam
Credit Residency Requirements
Cross Registration
Dean's List
Early Alert
Final Grade Appeal
Grade of Incomplete
Grievance Procedures
Grading System
Graduation Requirements
Honesty in Learning
Inappropriate Behavior
Late Registration
Mid-term Grade
Military Leave of Absence
Non-Discrimination Policy
President's List
Smoke-Free Facilities - Smoking/Smokeless Tobacco Use
Sexual Assault
Standards of Academic Progress (SAP)
Student Records
Transcripts
Transfer and Articulation
Withdrawal

The site is searchable at www.starkstate.edu/policies by opening the link marked Complete P&P (PDF), then right-clicking on the document and typing in the search phrase listed above. Students are responsible for being familiar with and adhering to College policies and procedures. Students without Internet access may use open labs to access www.starkstate.edu/policies. Requests for printed copies of policies and procedures, or questions regarding any policy or procedure, should be directed to the Office of Admissions/Student Services at 330-494-6170.

COLLEGE COMMITMENT TO SCHOLASTIC HONESTY, STUDENT INTEGRITY AND HONESTY IN LEARNING

Student integrity and scholastic honesty are an integral part of the College's scholastic standard, academic quality and a foundation for our society. Faculty, staff and students are responsible for promoting honesty in learning. Students are responsible for reading and following the Honesty in Learning Policy available at www.starkstate.edu/policies. Any student who violates or assists another to violate the Honesty in Learning Policy will be penalized.

HONESTY IN LEARNING

Stark State College supports honesty in learning as an institutional value; therefore, dishonesty – such as cheating, plagiarism, or furnishing false information to the College or its staff – will subject a student to disciplinary action, which may include dismissal from the College. Faculty, staff and students are responsible for promoting honesty in learning. Students are responsible for being familiar with the policy located in the Student Handbook. Any student who violates or assists another to violate the Honesty in Learning Policy will be penalized.

- Plagiarism – According to the Council of Writing Program Administrators, “In an instructional setting, plagiarism occurs when a writer deliberately uses someone else’s language, ideas, or other original (not common-knowledge) material without acknowledging its source.”
- Coursework – Work done for class, which a student submits as the student’s own work, will not contain that which has been obtained from another, other than properly credited references, sources, and citations. The work which a student submits will be prepared in accordance with course guidelines.
- Exams – Work done on a test, exam, or quiz will be the student’s own and will not contain that which has been obtained from an inappropriate source. A student will not obtain nor seek to obtain advanced access to questions or advance copies of a test, exam or quiz without the instructor’s permission.

Procedures regarding violations of the Honesty in Learning Policy are contained in the Policies and Procedures Manual.

For the most current academic and student conduct policies, as well as additional policies and procedures of interest to students, go to [**www.starkstate.edu/policies**](http://www.starkstate.edu/policies). Printed copies may be requested in the Office of Admissions/Student Services.

STATE OF OHIO POLICY FOR INSTITUTIONAL TRANSFER

OHIO TRANSFER POLICY

Transfer students shall be subject to the catalog in force at the time of their admission to the receiving institution and to any revisions that occur after its publication and prior to their enrollment. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as native students. Furthermore, transfer students shall be accorded the same class standing and other privileges (e.g., financial aid, registration, parking privileges, etc.) as native students on the basis of the number of credits earned. For more information about credit transfer: www.regents.ohio.gov/transfer.

TRANSFER ASSURANCE GUIDELINES (TAGs)

Students are guaranteed the transfer of applicable credits among Ohio's public colleges and universities and equitable treatment in the application of credits to admissions and degree requirements. Students can complete specific general education courses anywhere in the public system as well as many courses in the degree/major that have been pre-identified for transfer. For more information about TAGs available through Stark State: www.starkstate.edu/tags.

Transferology

Transferology is an online tool that helps students view program requirements, course equivalencies, and see how courses transfer to another college or university. To get access to all that Transferology has to offer: www.transferology.com/welcome.htm.

AA/AS DEGREES

Stark State's associate of arts and associate of science degrees are the first step to a bachelor's degree, providing a foundation in general education with special emphasis on the baccalaureate degree students plan to pursue. These transfer degrees are intended as an affordable, transferable beginning to a four-year degree. Students should talk with their academic advisor for more information.

TRANSFER MODULE

Another option for students is the transfer module, which guarantees the transfer of a minimum of 36-40 semester credit hours of specified courses in English, mathematics, arts and humanities, social sciences and natural and physical sciences from Stark State to any Ohio public college or university and vice versa. For more information about Stark State's transfer module: www.starkstate.edu/transfermodule.

TRANSFER MODULE COURSES

English and Communications

Effective Speaking	COM121
Interpersonal Communications	COM122
College Composition	ENG124
Technical Report Writing	ENG221
Business Communication	ENG230
College Composition II	ENG231

Mathematics

Statistics	MTH 124, MTH124A and MTH124B
College Algebra	MTH125, MTH125A, MTH125B
Trigonometry	MTH130
Precalculus	MTH135, MTH135A and MTH135B
Concepts of Calculus	MTH221
Analytic Geometry and Calculus I	MTH 223, MTH223A and MTH223B
Analytical Geometry and Calculus II	MTH224
Analytical Geometry and Calculus III	MTH225
Linear Algebra	MTH226
Ordinary Differential Equations	MTH227

Arts and Humanities

British Literature: Medieval to 1785	ENG 233
British Literature: 1785 to Present	ENG 234
American Literature: Colonial to 1865	ENG 236
American Literature: 1865 to Present	ENG 237
Art History I	ARTH22007
US History I: To 1877	HIS 121
US History II: From 1877	HIS 122
Western Civilization: to 17th Century	HIS221
Western Civilization: from 17th Century	HIS222
Ethics	PHL122
Understanding Architecture +	ARCH10001
Art Survey +	ARTH12001
Art History I: Ancient and Medieval Art+	ARTH22006
Art History II: Renaissance to Modern Art+	ARTH22007
Intro to Shakespeare +	ENG21054
Great Books I +	ENG22071
Great Books II+	ENG22072
Major Modern Writers: British and U.S. +	ENG22073
History of Civilization I +	HIST11050
History of Civilization II +	HIST11051
History of the U.S.: The Formative Period +	HIST12070
History of the U.S.: The Modern Period +	HIST12071
The Understanding of Music +	MUS22111
Music as a World Phenomenon+	MUS22121
Interpreting the Black Experience I +	PAS23001
Interpreting the Black Experience II +	PAS23002

Social Science

General Psychology	PSY121
Psychology of Adjustment	PSY122
Human Growth and Development	PSY123
Industrial/Organizational Psychology	PSY124
Social Psychology	PSY220
Abnormal Psychology	PSY221
Political Science	PSC121
Basic Economics	BUS122
Microeconomics	BUS221
Macroeconomics	BUS222
Sociology	SOC121
Society and Technology	SOC122
Dynamics of the Family	SOC123
Cultural Diversity	SOC225

Natural and Physical Science

Introduction to Anatomy & Physiology	BIO101
Anatomy and Physiology I	BIO121
Anatomy and Physiology II	BIO122
Science, Energy and the Environment	BIO126
Human Biology	BIO127
Climate Studies	BIO128
Meteorology	BIO129
Ocean Studies	BIO130
General Biology I	BIO141
Principles of Microbiology	BIO221
General Genetics	BIO241
Cell and Molecular Biology	BIO242
Introduction to Chemistry	CHM101
General, Organic and Biological Chemistry I	CHM121, CHM121A and CHM121B
General, Organic and Biological Chemistry II	CHM122
General Chemistry I	CHM141, CHM141A and CHM141B
General Chemistry II	CHM142
Organic Chemistry I	CHM241
Organic Chemistry II	CHM242
Physical Geology	GEO141
Principles of Physics	PHY101
Physics I	PHY121, PHY121A and PHY121B
Physics II	PHY122
Astronomy	PHY125
General Physics I with Calculus	PHY221
General Physics II with Calculus	PHY222

+ Indicates courses offered at Kent State - Stark campus
For the Transfer Module in chart form, www.starkstate.edu/transfermodule

DRUG FREE SCHOOLS AND COMMUNITIES ACT AMENDMENTS OF 1989 POLICY

ALCOHOL

Effects of Occasional and Extended Use

Impotence and infertility; high blood pressure; heart attacks; strokes; cirrhosis of the liver; cancer of the liver, stomach, esophagus or larynx; stomach ulcers; colitis; fetal alcohol syndrome; premature aging; birth defects; slowed reaction; slurred speech; unconsciousness.

Criminal Sanctions/Penalties

- Purchase under 21: Maximum fine of \$1,000.
- Possess or consume under 21: Maximum fine of \$100.
- Open container violation: Maximum fine of \$1,000.
- Consumption in a motor vehicle: Maximum confinement of 30 days.

MARIJUANA

Effects of Occasional and Extended Use

Chronic lung cancer, brain damage, high blood pressure, diminished immunity, premature aging, impairment of memory, diminished motor skills, birth defects, fetal alcohol syndrome, mood swings, loss of ambition, increased apathy, decline in school and work performance.

Criminal Sanctions/Penalties

- Unlawful possession of use: Maximum penalties, depending on amount, may result in fine of \$5,000 and/or maximum confinement of 10 years.
- Sell, offer to sell, or distribute for sale: Maximum fine of \$7,500 and/or maximum confinement of 25 years.

NARCOTICS: COCAINE, CRACK COCAINE

Effects of Occasional and Extended Use

Seizures, stroke, cardiac or respiratory arrest, convulsions, delirium and paranoia, insomnia, anxiety, irritability, nasal problems, powerful addiction, disorientation.

Criminal Sanctions/Penalties

- Possession or use: Ranges from rehabilitation programs to substantial years of confinement and fines.
- Sell, offer to sell, and distribute for sale: Penalty determined by the amount of substance, with fines in large amounts (exceeding \$1,000,000) and life imprisonment.

NARCOTICS: HEROIN, OPIUM, MORPHINE

Effects of Occasional and Extended Use

Cardiac arrest, vein inflammation, insomnia, serum hepatitis, convulsions, skin abscesses, death, physical dependence, difficulty breathing, nausea, constricted pupils, panic.

Criminal Sanctions/Penalties

- Possession or use: Ranges from rehabilitation programs to substantial years of confinement and fines.
- Sell, offer to sell, and distribute for sale: Penalty determined by the amount of substance, with fines in large amounts (exceeding \$1,000,000) and life imprisonment.

NARCOTICS: OTHER CONTROLLED SUBSTANCES (LSD, PCP)

Effects of Occasional and Extended Use

Hallucinations, distortion of senses, memory loss, disruption of motor skills, permanent cognitive damage, bizarre behavior, severe disorientation.

Criminal Sanctions/Penalties

- Possession or use: Ranges from rehabilitation programs to substantial years of confinement and fines.
- Sell, offer to sell, and distribute for sale: Penalty determined by the amount of substance, with fines in large amounts (exceeding \$1,000,000) and life imprisonment.

NARCOTICS: DEPRESSANTS (BARBITURATES AND TRANQUILIZERS)

Effects of Occasional and Extended Use

Death, coma, altered perception, physical dependence, dangerous withdrawal symptoms, staggered walk, difficulty breathing, slurred speech, psychological dependence.

Criminal Sanctions/Penalties

- Possession or use: Ranges from rehabilitation programs to substantial years of confinement and fines.
- Sell, offer to sell, and distribute for sale: Penalty determined by the amount of substance, with fines in large amounts (exceeding \$1,000,000) and life imprisonment.

Note: Distribution of controlled substances in or near schools and colleges can result in penalties twice the regular for the same offense. Trafficking in drugs can result in forfeiture of property including motor vehicles, vessels, money, real property and other personal property.

COLLEGE SANCTIONS

Students – The unlawful use, possession, sale, manufacture, or distribution of drugs and alcohol subjects any student discipline pursuant to established College procedures and to sanctions up to and including suspension or dismissal from the College. Any student violating this policy or otherwise engaging in illegal conduct will also be referred for criminal prosecution.

College employees – Under the influence, possession, or use, furnishing to a minor: Sanctions up to and including termination. Any employee engaging in the illegal use, possession, sale, manufacture, or distribution of drugs and alcohol will be subject to disciplinary procedures outlined in the Policy and Procedure Manual with sanctions up to and including termination from the College.

SUPPORT AND RESOURCES

Twelve Step programs are self-help groups based on the spiritual concepts of Alcoholics Anonymous. They are often used as inpatient and outpatient treatment aftercare.

Some Twelve Step Programs available

- Adult Children of Alcoholics
- Alcoholics Anonymous
- Co-dependency Anonymous
- Cocaine Anonymous
- Narcotics Anonymous
- Overeater Anonymous

These local information and referral agencies can give you information about assessment, treatment and support resources:

- Alcohol and Drug Assistance - 330-453-8811
- Crisis Intervention Center - 330-452-6000 or 1-800-956-6630
- Stark State College Office of Admissions/Student Services
- Stark State College Security Department
- Interfaith Campus Ministry
- Stark State College counseling services -330-494-6170, Ext. 4219
- Quest Recovery and Prevention Services - 330-453-8252

SSC CONCEALED WEAPONS POLICY

The use, possession or carrying of a handgun or other weapon by any person who is not a professional law enforcement officer on College property is prohibited and in violation of state law.



BUSINESS

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED BUSINESS

ACCOUNTING – CORPORATE MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

2001

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC221	Intermediate Accounting I	4	ACC132	
ACC222	Intermediate Accounting II	3	ACC221	
ACC223	Cost Accounting	4	ACC133	
ACC225 or ACC 237	Auditing♦ or Fraud Examination♦	3 or 4	ACC222 (pre/co-req)	
ACC228	Business Taxation	4	ACC132	
TECHNICAL ELECTIVES: Choose two (2) courses				
ACC226	Advanced Accounting	3	ACC222 (pre/co-req)	
ACC227	Payroll Accounting	3	ACC121 or ACC132 (pre/co-req)	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)	
ACC234	Advanced Payroll▲	3	ACC227	
ACC235	Forensic Accounting	3		
ACC238	Financial Statement Analysis▲	4	ACC133	
ACC240	CMA Exam Part 1 Review Course▲	3	ACC223 (pre/co-req)	
ACC241	CMA Exam Part 2 Review Course▲	3	ACC223 (pre/co-req)	
BTD223	Business Co-op	3	Department Chair Approval	
Total		32-34		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ACC130	Business Law & Ethics	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
BUS 221	Microeconomics^	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
FIN220	Business Finance	3	ACC133	
MTH124	Statistics^	3	MTH093++ or Proficiency	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
Total		31		
TOTAL CREDIT HOURS		63-65		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

♦Course should be chosen following consultation with academic advisor.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241, PHL122 or SOC225 (All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
BUS124	Business Analysis with Algebra**	3	
BUS121	Business Administration^	3	IDS102 or Proficiency
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ACC130	Business Law & Ethics	<u>3</u>	
		16	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
COM121	Effective Speaking	3	
BUS221	Microeconomics^	3	IDS102 or Proficiency
MTH124	Statistics^	3	MTH093++ or Proficiency
<i>Arts & Humanities Elective</i> ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Third Semester</u>			
ACC221	Intermediate Accounting I	4	ACC132
ACC133	Managerial Accounting	4	ACC132
ACC228	Business Taxation	4	ACC132
<i>Technical Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		15	
<u>Fourth Semester</u>			
ACC223	Cost Accounting	4	ACC133
ACC222	Intermediate Accounting II	3	ACC221
ACC225	Auditing♦	3	ACC222 (pre/co-req)
or	or	or	
ACC237	Fraud Examination♦	4	ACC133
FIN220	Business Finance	3	ACC133
<i>Technical Elective</i> ²		<u>3-4</u>	<i>Check for prerequisites</i>
		16-18	
TOTAL CREDITS		63-65	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

♦Course should be chosen following consultation with academic advisor.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241, PHL122 or SOC225 (All ENG courses' prerequisite: ENG124)

² Technical Electives: ACC226, ACC227, ACC229, ACC234, ACC235, ACC238, ACC240, ACC241, BT223



ASSOCIATE OF APPLIED BUSINESS

ACCOUNTING – CPA MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

2002

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC124	Individual Taxation	3	ACC132 (pre/co-req)	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC221	Intermediate Accounting I	4	ACC132	
ACC222	Intermediate Accounting II	3	ACC221	
ACC223	Cost Accounting	4	ACC133	
ACC226	Advanced Accounting	3	ACC222 (pre/co-req)	
ACC228	Business Taxation	4	ACC132	
ACC232	Governmental & Not-for-Profit Accounting	3	ACC132	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ACC130	Business Law & Ethics	3		
ACC225	Auditing	4	ACC222 (pre/co-req)	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics^	3	IDS102 or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
FIN220	Business Finance	3	ACC133	
MTH124	Statistics^	3	MTH093++ or Proficiency	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		64		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Students may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ACC130	Business Law & Ethics	3	
<i>Arts & Humanities Elective</i> ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ACC124	Individual Taxation	3	ACC132 (<i>pre/co req</i>)
MTH124	Statistics^	3	MTH093++ or Proficiency
BUS221	Microeconomics^	<u>3</u>	IDS102 or Proficiency
		16	
<u>Third Semester</u>			
ACC221	Intermediate Accounting I	4	ACC132
ACC133	Managerial Accounting	4	ACC132
ACC228	Business Taxation	4	ACC132
ACC232	Governmental & Not-for-Profit Accounting	<u>3</u>	ACC132
		15	
<u>Fourth Semester</u>			
ACC222	Intermediate Accounting II	3	ACC221
ACC223	Cost Accounting	4	ACC133
ACC225	Auditing	4	ACC222 (<i>pre/co-req</i>)
FIN220	Business Finance	3	ACC133
ACC226	Advanced Accounting	<u>3</u>	ACC222 (<i>pre/co req</i>)
		17	
	TOTAL CREDITS	64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Students may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)



ONE-YEAR CERTIFICATE BOOKKEEPING

1516 Catalog
Effective Summer 2015

2004

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
ACC227	Payroll Accounting	3	ACC121 or ACC132 (pre/co-req)	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)	
TECHNICAL ELECTIVES: Choose one (1) course				
ACC124	Individual Taxation	3	ACC132 (pre/co-req)	
ACC133	Managerial Accounting	4	ACC132	
ACC228	Business Taxation	4	ACC132	
Total		16-17		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ACC130	Business Law & Ethics	3		
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
Total		16		
TOTAL CREDIT HOURS		32-33		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

***Students must still pass the Certified Bookkeepers Examination to become certified.
This examination is administered by the American Institute of Professional Bookkeepers (AIPB.org).***

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE BOOKKEEPING	2004

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS124	Business Analysis with Algebra**	3	
ACC130	Business Law & Ethics	<u>3</u>	
		7	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
BUS121	Business Administration^	3	IDS102 or Proficiency
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		13	
<u>Third Semester</u>			
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)
ACC227	Payroll Accounting	3	ACC121 or ACC132 (<i>pre/co-req</i>)
COM121	Effective Speaking	3	
<i>Technical Elective</i> ¹		<u>3-4</u>	<i>Check for prerequisites</i>
		12-13	
TOTAL CREDITS		32-33	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Technical Electives: ACC124, ACC133, ACC228

***Students must still pass the Certified Bookkeepers Examination to become certified.
This examination is administered by the American Institute of Professional Bookkeepers (AIPB.org).***



ONE-YEAR CERTIFICATE ENROLLED AGENT

1516 Catalog

Effective Summer 2015

2005

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and changes only when students change their major or request the change in writing.*

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC124	Individual Taxation	3	ACC132 (pre/co-req)	
ACC132	Financial Accounting*	4	BUS124	
ACC227	Payroll Accounting	3	ACC121 or ACC132 (pre/co-req)	
ACC228	Business Taxation	4	ACC132	
ACC239	Estate & Income Tax Planning▲	3	ACC124	
Total		17		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ACC130	Business Law & Ethics	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
Total		13		
TOTAL CREDIT HOURS		30		

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

***Students must still pass the Enrolled Agent Examination to become certified.
This examination is administered by the Internal Revenue Service (IRS).***

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE ENROLLED AGENT	2005

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS124	Business Analysis with Algebra**	3	
ACC130	Business Law & Ethics	<u>3</u>	
		7	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
ACC124	Individual Taxation	3	ACC132 (<i>pre/co-req</i>)
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		13	
<u>Third Semester</u>			
ACC228	Business Taxation	4	ACC132
ACC239	Estate & Income Tax Planning▲	3	ACC124
ACC227	Payroll Accounting	<u>3</u>	ACC121 or ACC132 (<i>pre/co-req</i>)
		10	
TOTAL CREDITS		30	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

***Students must still pass the Enrolled Agent Examination to become certified.
This examination is administered by the Internal Revenue Service (IRS).***



ONE-YEAR CERTIFICATE FUNDAMENTAL PAYROLL

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

2006

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC124	Individual Taxation	3	ACC132 (<i>pre/co-req</i>)	
ACC132	Financial Accounting*	4	BUS124	
ACC227	Payroll Accounting	3	ACC121 or ACC132 (<i>pre/co-req</i>)	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)	
ACC234	Advanced Payroll▲	3	ACC227	
BUS124	Business Analysis with Algebra**	3		
Total		19		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
Total		13		
TOTAL CREDIT HOURS		32		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

***Students must still pass the Fundamental Payroll Examination to become certified.
This examination is administered by the American Payroll Association.***

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE FUNDAMENTAL PAYROLL	2006

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS124	Business Analysis with Algebra**	3	
ACC130	Business Law & Ethics	<u>3</u>	
		7	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
ACC227	Payroll Accounting	3	ACC121 or ACC132 (<i>pre/co-req</i>)
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		13	
<u>Third Semester</u>			
ACC234	Advanced Payroll▲	3	ACC227
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)
COM121	Effective Speaking	3	
ACC124	Individual Taxation	<u>3</u>	ACC132 (<i>pre/co-req</i>)
		12	
	TOTAL CREDITS	32	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

***Students must still pass the Fundamental Payroll Examination to become certified.
This examination is administered by the American Payroll Association.***



ASSOCIATE OF APPLIED BUSINESS

ACCOUNTING – TAX MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

2007

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC124	Individual Taxation	3	ACC132 (<i>pre/co-req</i>)	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC221	Intermediate Accounting I	4	ACC132	
ACC222	Intermediate Accounting II	3	ACC221	
ACC223	Cost Accounting	4	ACC133	
ACC225 or ACC237	Auditing♦ or Fraud Examination♦	3 or 4	ACC222 (<i>pre/co-req</i>) or ACC133	
ACC228	Business Taxation	4	ACC132	
TECHNICAL ELECTIVE: <i>Must select one course</i>				
ACC227	Payroll Accounting	3	ACC121 or ACC132 (<i>pre/co-req</i>)	
ACC239	Estate & Income Tax Planning▲	3	ACC124	
BTD223	Business Co-op	3	<i>Department Chair Approval</i>	
Total		32-33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
BUS 221	Microeconomics^	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
FIN220	Business Finance	3	ACC133	
MTH124	Statistics^	3	MTH093++ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		31		
TOTAL CREDIT HOURS		63-64		

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

*Students may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

♦Course should be chosen following consultation with academic advisor.

▲Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ENG124	College Composition^	3	ENG011 or Proficiency
BUS124	Business Analysis with Algebra**	3	
BUS121	Business Administration^	3	IDS102 or Proficiency
ACC130	Business Law & Ethics	3	
Arts & Humanities Elective ¹		<u>3</u>	Check for prerequisites
		16	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS221	Microeconomics^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
ACC124	Individual Taxation	<u>3</u>	ACC132 (pre/co-req)
		16	
<u>Third Semester</u>			
ACC221	Intermediate Accounting I	4	ACC132
ACC133	Managerial Accounting	4	ACC132
MTH124	Statistics^	3	MTH093++ or Proficiency
ACC228	Business Taxation	<u>4</u>	ACC132
		15	
<u>Fourth Semester</u>			
ACC222	Intermediate Accounting II	3	ACC221
ACC223	Cost Accounting	4	ACC133
ACC225	Auditing♦	3	ACC222 (pre/co-req)
or	or	or	
ACC237	Fraud Examination♦	4	ACC133
FIN220	Business Finance	3	ACC133
Technical Elective ²		<u>3</u>	
		16-17	
TOTAL CREDITS		63-64	

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

*Students may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

♦Course should be chosen following consultation with academic advisor.

▲Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

² Technical Elective: ACC227, ACC239, BTD223



ASSOCIATE OF APPLIED BUSINESS

ACCOUNTING – COMPUTER INFORMATION MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2008

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC221	Intermediate Accounting I	4	ACC132	
ACC228	Business Taxation	4	ACC132	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
ITD102	Computer Applications – Word^	1	ITD100 or Proficiency	
ITD104	Computer Applications – PowerPoint^	1	ITD100 or Proficiency	
ITD106	Computer Applications – Access^	1	ITD100 or Proficiency	
TECHNICAL ELECTIVE I: Choose one (1) course				
ACC124	Individual Taxation	3	ACC132 (pre/co-req)	
ACC227	Payroll Accounting	3	ACC121 or ACC132 (pre/co-req)	
ACC234	Advanced Payroll▲	3	ACC227	
ACC235	Forensic Accounting	3		
BTD223	Business Co-op	3	Department Chair Approval	
TECHNICAL ELECTIVE II: Choose one (1) course				
CPD222	Microsoft SQL Server Database Design	3	CPD121	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ACC130	Business Law & Ethics	3		
ACC237	Fraud Examination	3	ACC133	
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
BUS 221	Microeconomics^	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH124	Statistics^	3	MTH093++ or Proficiency	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
Total		31		
TOTAL CREDIT HOURS		62		

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Elective: HIS121, HIS122, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241, PHL122 or SOC225 (All ENG courses' prerequisite: ENG124)

1516 Catalog Effective Summer 2015	ACCOUNTING – COMPUTER INFORMATION MAJOR	2008

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
BUS124	Business Analysis with Algebra**	3	
BUS121	Business Administration^	3	IDS102 or Proficiency
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ACC130	Business Law & Ethics	<u>3</u>	
		16	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
COM121	Effective Speaking	3	
BUS221	Microeconomics^	3	IDS102 or Proficiency
ITD102	Computer Applications – Word^	1	ITD100 or Proficiency
ITD104	Computer Applications – PowerPoint^	1	ITD100 or Proficiency
ITD106	Computer Applications – Access^	1	ITD100 or Proficiency
<i>Arts and Humanities Elective</i> ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Third Semester</u>			
ACC221	Intermediate Accounting I	4	ACC132
ACC133	Managerial Accounting	4	ACC132
ACC228	Business Taxation	4	ACC132
CPD121	Data Modeling and Database Design^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		15	
<u>Fourth Semester</u>			
ACC237	Fraud Examination	3	ACC133
MTH124	Statistics^	3	MTH093++ or Proficiency
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)
<i>Technical Elective I</i> ²		3	<i>Check for prerequisites</i>
<i>Technical Elective II</i> ³		<u>3</u>	<i>Check for prerequisites</i>
		15	
TOTAL CREDITS		62	

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of “C” required.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241, PHL122 or SOC225 (All ENG courses' prerequisite: ENG124)

² Technical Elective I: ACC124, ACC227, ACC234, ACC235, BTD223

³ Technical Elective II: CPD222 or WDD121



ASSOCIATE OF APPLIED BUSINESS

ACCOUNTING SERVICES FOR HEALTH ADMINISTRATION MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2009

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC221	Intermediate Accounting I	4	ACC132	
ACC223	Cost Accounting	4	ACC133	
ACC228	Business Taxation	4	ACC132	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)	
ACC232	Governmental & Not-for-Profit Accounting	3	ACC132	
ACC237	Fraud Examination	3	ACC133	
MAT231	Reimbursement for Health Care Services+++	3		
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BIO125	Medical Terminology+++	3		
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics^	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
FIN220	Business Finance	3	ACC133	
HIT230	Health Care Delivery in the U.S.+++	2		
HIT123	Healthcare Legal and Ethical Issues+++	2	HIT230 (<i>pre-req</i>) or HIT121 (<i>co-req</i>)	
MTH124	Statistics^	3	MTH093++ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		32		
TOTAL CREDIT HOURS		64		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

+++Student must take Health courses in the sequence as shown.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241

(All ENG courses' prerequisite: ENG124)

ACCOUNTING SERVICES FOR HEALTH ADMINISTRATION MAJOR

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
BUS124	Business Analysis with Algebra**	3	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BIO125	Medical Terminology+++	3	
COM121	Effective Speaking	<u>3</u>	
		16	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
HIT230	Health Care Delivery in the U.S.+++	2	
MTH124	Statistics^	3	MTH093++ or Proficiency
BUS221	Microeconomics^	3	IDS102 or Proficiency
<i>Arts & Humanities Elective ¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		15	
<u>Third Semester</u>			
ACC221	Intermediate Accounting I	4	ACC132
ACC133	Managerial Accounting	4	ACC132
ACC232	Governmental & Not-For-Profit Accounting	3	ACC132
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)
MAT231	Reimbursement for Health Care Services+++	<u>3</u>	
		17	
<u>Fourth Semester</u>			
ACC237	Fraud Examination	3	ACC133
ACC223	Cost Accounting	4	ACC133
FIN220	Business Finance	3	ACC133
ACC228	Business Taxation	4	ACC132
HIT123	Healthcare Legal and Ethical Issues+++	<u>2</u>	HIT230 (<i>pre-req</i>) or HIT121 (<i>co-req</i>)
		16	
TOTAL CREDITS		64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

+++Student must take Health courses in the sequence as shown.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)



ONE-YEAR CERTIFICATE BANKING ASSOCIATE

1516 Catalog

Effective Summer 2015

2010

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
FIN221	Investment & Securities▲	3	ACC132	
FIN227	Money & Banking▲	3	BUS124	
MKT121	Principles of Marketing	3	BUS221	
MKT221	Sales	3	MKT121	
Total		19		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
Total		16		
TOTAL CREDIT HOURS		35		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE BANKING ASSOCIATE	2010

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
BUS124	Business Analysis with Algebra**	3	
BUS221	Microeconomics^	3	IDS102 or Proficiency
COM121	Effective Speaking	<u>3</u>	
		13	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ACC132	Financial Accounting*	4	BUS124
MKT121	Principles of Marketing	<u>3</u>	BUS221
		13	
<u>Third Semester</u>			
MKT221	Sales	3	MKT121
FIN221	Investment & Securities▲	3	ACC132
FIN227	Money & Banking▲	<u>3</u>	BUS124
		9	
	TOTAL CREDITS	35	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

ACCOUNTING – FORENSIC ACCOUNTING MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2011

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC221	Intermediate Accounting I	4	ACC132	
ACC223	Cost Accounting	4	ACC133	
ACC228	Business Taxation	4	ACC132	
ACC235	Forensic Accounting	3		
ACC237	Fraud Examination	3	ACC133	
ACC238	Financial Statement Analysis▲	4	ACC133	
CFS137	Computer Crime and Investigation	3	NET120	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics^	3	IDS102 or Proficiency	
CFS136	Principles of Information Security	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH124	Statistics^	3	MTH093++ or Proficiency	
NET120	PC Upgrading and Maintenance	3		
	<i>Select one (1) Arts & Humanities Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		31		
TOTAL CREDIT HOURS		64		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

1516 Catalog Effective Summer 2015	ACCOUNTING – FORENSIC ACCOUNTING MAJOR	2011

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
BUS124	Business Analysis with Algebra**	3	
BUS221	Microeconomics^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
CFS136	Principles of Information Security	<u>3</u>	
		16	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
ACC235	Forensic Accounting	3	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ACC130	Business Law & Ethics	3	
NET120	PC Upgrading and Maintenance	<u>3</u>	
		16	
<u>Third Semester</u>			
ACC221	Intermediate Accounting I	4	ACC132
ACC133	Managerial Accounting	4	ACC132
ACC228	Business Taxation	4	ACC132
MTH124	Statistics^	<u>3</u>	MTH093++ or Proficiency
		15	
<u>Fourth Semester</u>			
ACC237	Fraud Examination	3	ACC133
ACC223	Cost Accounting	4	ACC133
ACC238	Financial Statement Analysis▲	4	ACC133
CFS137	Computer Crime and Investigation	3	NET120
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		17	
TOTAL CREDITS		64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)



ONE-YEAR CERTIFICATE

COMPUTER-INTEGRATED ACCOUNTING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2012

Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC227	Payroll Accounting	3	ACC121 or ACC132 (pre/co-req)	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132) or ENT123	
AOT226	Spreadsheet – Microsoft Excel^▲	3	ITD100 or Proficiency	
AOT236	Database Applications – Microsoft Access	3	ITD100 or Proficiency	
Total		20		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
BUS124	Business Analysis with Algebra**	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^+	3	ITD100 or Proficiency	
Total		13		
TOTAL CREDIT HOURS		33		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

** BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE COMPUTER-INTEGRATED ACCOUNTING	2012

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS124	Business Analysis with Algebra**	3	
ACC130	Business Law & Ethics	<u>3</u>	
		7	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
ITD122	Computer Applications for Professionals^+	3	ITD100 or proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or proficiency
		10	
<u>Third Semester</u>			
ACC133	Managerial Accounting	4	ACC132
ACC227	Payroll Accounting	3	ACC121 or ACC132 (pre/co-req)
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132 or ENT123
AOT226	Spreadsheet – Microsoft Excel^▲	3	ITD100 or proficiency
AOT236	Database Applications – Microsoft Access	<u>3</u>	ITD100 or proficiency
		16	
	TOTAL CREDITS	33	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2055

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC130	Business Law & Ethics	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT221	Supervision	3	MGT121	
MGT223	Business Decision Making	4	ACC133 and MGT121	
MGT224	Human Resource Management	3	MGT121	
MGT227	Operations Management	4	MGT121 and MTH108	
MKT121	Principles of Marketing	3	BUS221	
TECHNICAL ELECTIVE: Choose two (2) courses				
MGT222	Small Business Management	3	ACC133 and MGT121	
MGT232	International Business	3	BUS121	
MKT221	Sales	3	MKT121	
MKT226	Supply Chain Management	3	MKT121	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [■] or Microsoft Spreadsheet Excel [▲]	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		65		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

[▲]Course offerings vary by semester. Please see your academic advisor for availability

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	3	ENG011 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+
		16	or Proficiency
<u>Second Semester</u>			
ACC130	Business Law & Ethics	3	
MGT121	Principles of Management	3	BUS121 or ENT120
BUS221	Microeconomics^	3	IDS102 or Proficiency
ACC132	Financial Accounting*	4	BUS124
COM121	Effective Speaking	3	
		16	
<u>Third Semester</u>			
MKT121	Principles of Marketing	3	BUS221
MGT227	Operations Management	4	MGT121 and MTH108
ACC133	Managerial Accounting	4	ACC132
MGT221	Supervision	3	MGT121
Technical Elective ²		3	<i>Check for prerequisites</i>
		17	
<u>Fourth Semester</u>			
MGT224	Human Resource Management	3	MGT121
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MGT223	Business Decision Making	4	ACC133 and MGT121
Arts & Humanities Elective ¹		3	<i>Check for prerequisites</i>
Technical Elective ²		3	<i>Check for prerequisites</i>
		16	
TOTAL CREDITS		65	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability

* Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

² Technical Electives: MGT222, MGT232, MKT221, MKT226



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – HEALTH SERVICES MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

2060

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC130	Business Law & Ethics	3		
BIO101	Introduction to Anatomy and Physiology [^]	3	IDS102 or Proficiency	
BIO125	Medical Terminology	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
HIT230	Health Care Delivery in the U.S.	2		
MAT231	Reimbursement for Health Care Services	3		
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT223	Business Decision Making	4	ACC133 and MGT121	
MGT224	Human Resource Management	3	MGT121	
MKT121	Principles of Marketing	3	BUS221	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals ^{^■} or Spreadsheet Microsoft Excel ^{^▲}	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of “B” required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

[▲]Course offerings vary by semester. Please see your academic advisor for availability

* Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

1516 Catalog Effective Summer 2015	BUSINESS MANAGEMENT – HEALTH SERVICES MAJOR	2060

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	3	ENG011 or Proficiency
BIO125	Medical Terminology	<u>3</u>	
		16	
<u>Second Semester</u>			
ACC130	Business Law & Ethics	3	
MGT121	Principles of Management	3	BUS121 or ENT120
BUS221	Microeconomics^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
ACC132	Financial Accounting*	4	BUS124
		16	
<u>Third Semester</u>			
MKT121	Principles of Marketing	3	BUS221
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
ACC133	Managerial Accounting	4	ACC132
HIT230	Health Care Delivery in the U.S.	<u>2</u>	
		15	
<u>Fourth Semester</u>			
MGT224	Human Resource Management	3	MGT121
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MGT223	Business Decision Making	4	ACC133 and MGT121
MAT231	Reimbursement for Health Care Services	3	
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
	TOTAL CREDITS	63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD12

▲Course offerings vary by semester. Please see your academic advisor for availability

* Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – FINANCE MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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2061

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC130	Business Law & Ethics	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
FIN220	Business Finance	3	ACC133	
FIN221	Investments & Securities	3	ACC132	
FIN227	Money & Banking	3	BUS124	
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT221	Supervision	3	MGT121	
MGT223	Business Decision Making	4	ACC133 and MGT121	
MGT224	Human Resource Management	3	MGT121	
MKT121	Principles of Marketing	3	BUS221	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC132	Financial Accounting [*]	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra ^{**}	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [■] or Spreadsheet Microsoft Excel [▲]	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

[▲]Course offerings vary by semester. Please see your academic advisor for availability

^{*} Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

^{**}BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	3	ENG011 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
		16	
<u>Second Semester</u>			
ACC130	Business Law & Ethics	3	
MGT121	Principles of Management	3	BUS121 or ENT120
BUS221	Microeconomics^	3	IDS102 or Proficiency
ACC132	Financial Accounting*	4	BUS124
COM121	Effective Speaking	3	
		16	
<u>Third Semester</u>			
MGT221	Supervision	3	MGT121
MKT121	Principles of Marketing	3	BUS221
FIN227	Money & Banking	3	BUS124
ACC133	Managerial Accounting	4	ACC132
FIN221	Investments & Securities	3	ACC132
		16	
<u>Fourth Semester</u>			
MGT224	Human Resource Management	3	MGT121
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MGT223	Business Decision Making	4	ACC133 and MGT121
FIN220	Business Finance	3	ACC133
Arts & Humanities Elective ¹		3	<i>Check for prerequisites</i>
		16	
TOTAL CREDITS		64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – HUMAN RESOURCES MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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2062

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT221	Supervision	3	MGT121	
MGT223	Business Decision Making	4	ACC133 and MGT121	
MGT224	Human Resource Management	3	MGT121	
MGT232	International Business	3	BUS121	
MGT237	Safety and Health Management	3	MGT224	
MGT238	Strategic Staffing	3	MGT224	
MGT239	Compensation and Benefits	3	MGT224	
MKT121	Principles of Marketing	3	BUS221	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
MTH108	Exploration of Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [■] or Spreadsheet Microsoft Excel [▲]	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of “B” required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

[▲]Course offerings vary by semester. Please see your academic advisor for availability

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	3	ENG011 or Proficiency
Arts & Humanities Elective ¹		3	Check for prerequisites
		16	
<u>Second Semester</u>			
COM121	Effective Speaking	3	
MGT121	Principles of Management	3	BUS121 or ENT120
BUS221	Microeconomics^	3	IDS102 or Proficiency
MGT232	International Business	3	BUS121
ACC132	Financial Accounting*	4	BUS124
		16	
<u>Third Semester</u>			
MKT121	Principles of Marketing	3	BUS221
ACC130	Business Law & Ethics	3	
ACC133	Managerial Accounting	4	ACC132
MGT224	Human Resource Management	3	MGT121
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
		16	
<u>Fourth Semester</u>			
MGT221	Supervision	3	MGT121
MGT223	Business Decision Making	4	ACC133 and MGT121
MGT237	Safety and Health Management	3	MGT224
MGT238	Strategic Staffing	3	MGT224
MGT239	Compensation and Benefits	3	MGT224
		16	
	TOTAL CREDITS	64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – KENT STATE UNIVERSITY BBA DEGREE MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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2067

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Numbers		Course Title	Credits	Pre- or Co-Requisites	Completed Sem./Year
KSU Equivalent	Stark State				
FIN 26074	ACC130	Business Law & Ethics	3		
BUS 10123	BUS121	Business Administration [^]	3	IDS102 or Proficiency	
ECON 22060	BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
ECON 22061	BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
MIS 24163*	MGT121	Principles of Management	3	BUS121 or ENT120	
General Elective	MGT221	Supervision	3	MGT121	
General Elective	MGT223	Business Decision Making	4	ACC133 and MGT121	
BMRT 31006	MGT224	Human Resource Management	3	MGT121	
General Elective	MGT227	Operations Management	4	MGT121 and MTH108●	
MKTG 25010	MKT121	Principles of Marketing	3	BUS221	
Total			32		
NON-TECH Course Number		Course Title	Credits	Pre- or Co-Requisites	Completed Sem./Year
KSU Equivalent	Stark State				
General Elective	SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACCT 23020	ACC132	Financial Accounting♦	4	BUS124	
ACCT 23031	ACC133	Managerial Accounting	4	ACC132	
General Elective	BUS124	Business Analysis with Algebra**	3		
COMM 15000*	COM121	Effective Speaking	3		
ENG 11011	ENG124	College Composition [^]	3	ENG011 or Proficiency	
HIST 12070 or HIST 12071	HIS121 or HIS122	US History I to 1877 or US History II from 1877	3 or 3		
MIS 24053	ITD122	Computer Applications for Professionals [■]	3	ITD100 or Proficiency	
MATH 10041	MTH108 or MTH124	Explorations in Modern Mathematics ^Ω or Statistics [●]	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
PSYC 11762	PSY121	General Psychology [^]	3	IDS102 or Proficiency	
Total			30		
TOTAL CREDIT HOURS			62		

[^]Based upon SSC placement score.

^{^^}To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122.

♦Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

*Must earn minimum C (2.000) grade

●Students in the Kent State University BBA Major should take MTH124 Statistics in lieu of MTH108 Explorations in Modern Mathematics, as MTH108 is not equivalent to Kent State University's MATH10041.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		13	
<u>Second Semester</u>			
ACC132	Financial Accounting◆	4	BUS124
COM121	Effective Speaking	3	
MGT121	Principles of Management	3	BUS121 or ENT120
MKT121	Principles of Marketing	3	BUS221
MTH108	Explorations in Modern Mathematics^Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^●	<u>3</u>	MTH093++ or Proficiency
		16	
<u>Third Semester</u>			
MGT221	Supervision	3	MGT121
BUS221	Microeconomics^	3	IDS102 or Proficiency
MGT227	Operations Management	4	MGT121 and MTH108●
ACC133	Managerial Accounting	4	ACC132
ACC130	Business Law & Ethics	<u>3</u>	
		17	
<u>Fourth Semester</u>			
MGT224	Human Resource Management	3	MGT121
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MGT223	Business Decision Making	4	ACC133 and MGT121
HIS121	US History I to 1877	3	
or	or	or	
HIS122	US History II from 1877	3	
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		16	
TOTAL CREDITS		62	

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122.

◆Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

●Students in the Kent State University BBA Major should take MTH124 Statistics in lieu of MTH108 Explorations in Modern Mathematics, as MTH108 is not equivalent to Kent State University's MATH10041.

**ADDITIONAL COURSES FOR KENT BBA DEGREE AVAILABLE
AT STARK STATE COLLEGE AND ACCEPTED AT KENT STATE UNIVERSITY:**

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ADDITIONAL BRIDGE COURSES:					
KSU Equivalent	Stark State	Course Title	Credits	Pre- or Co-requisites	Completed Sem./Year
ENG 21011*	ENG231	College Composition II*	3	ENG124	
MATH 11010 (3 credit hours)*	MTH125	College Algebra*	4	(MTH093 and MTH094)++ or Proficiency	
MATH 11012	MTH221	Concepts of Calculus	3	MTH135 or (MTH125 and MTH130) or Proficiency	
PHIL 21001	PHL122	Ethics	3		
General Elective	ACC223	Cost Accounting	4	ACC133	
TWO ADDITIONAL BRIDGE SCIENCE COURSES: 6 credit hours minimum (3 credit hour minimum must involve lab course indicated by *)					
KSU Equivalent	Stark State	Course Title	Credits	Pre- or Co-requisites	Completed Sem./Year
Kent Basic Science or Kent Basic Science and Lab	BIO101 or BIO126*	Intro to Anatomy and Physiology or Science/Energy, & the Environment	3 credit hours or 4 credit hours/2 lab hours	IDS102 or Proficiency or None	
CHEM 10030 or CHEM 100050	CHM101 or CHM121*	Introduction to Chemistry or Gen/Org, & Biology Chemistry I	4 credit hours or 4 credit hours/2 lab hours	(MTH093 and MTH094)++ or Proficiency or CHM101	
Kent Basic Science and Lab or PHY 13021 and PHY 13001	PHY101* or PHY121*	Principles of Physics or Col Physics I with Algebra	4 credit hours/2 lab hours or 4 credit hours/2 lab hours	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency) or MTH135 or (MTH125 and MTH130)	
Kent Basic Science and Lab	BIO128*	Climate Studies	3 credit hours/2 lab hours		
Kent Basic Science and Lab	BIO129*	Meteorology	3 credit hours/2 lab hours		
GEOL 21080	BIO130*	Ocean Studies	3 credit hours/2 lab hours		
BSCI 10120	BIO141*	General Biology I	4 credit hours/3 lab hours		
CHEM 10062 or CHEM 10060	CHM141*	General Chemistry I	5 credit hours/4 lab hours	CHM101	
GEOL 11040 and GEOL 11041	GEO141*	Geology	4 credit hours/2 lab hours		
If all Bridge courses are completed at Stark State College, these 42 credit hours must be taken at Kent State University to obtain the BBA degree:					
Course Number		Course Title	Credit Hours		
		Fine Arts Elective	3		
MIS 34165 or MIS 34175		Dynamics of Leadership or Learning to Lead	3		
MIS 44062		Supply Chain Management	3		
MIS 44152		Collaborative Project Management	3		
MIS 44163		Global Business Management	3		
MIS 44392		Business Consulting and Practicum	3		
		Major Electives	6		
		College Elective	6		
		Fine Arts Elective	3		
BUS 30061		Business Professional Practices	1		
ENG 30061		Writing in Business	2		
MIS 34060		Operations Management	3		
MIS 44285		Business Policies	3		
FIN 36053		Business Finance	3		
		TOTAL CREDIT HOURS	42		

*Minimum C (2.000) grade required.



ONE-YEAR CERTIFICATE ENTREPRENEURSHIP

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

2071

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
ENT120	Entrepreneurship [^]	3	IDS102 or Proficiency	
ENT124	Managing Entrepreneurial Growth	3	ENT120	
ENT225	Global Entrepreneurship	3	ENT120	
MGT121	Principles of Management	3	BUS121 or ENT120	
Total		15		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS124	Business Analysis with Algebra ^{**}	3		
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [^] ■ or Microsoft Spreadsheet Excel [^] ▲	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
Total		16		
TOTAL CREDIT HOURS		31		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

^{**}BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122.

▲Course offerings vary by semester. Please see your academic advisor for availability.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ENT120	Entrepreneurship^	3	IDS102 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
COM121	Effective Speaking	3	
BUS124	Business Analysis with Algebra**	<u>3</u>	
		16	
<u>Second Semester</u>			
BUS221	Microeconomics^	3	IDS102 or Proficiency
MGT121	Principles of Management	3	BUS121 or ENT120
ENT124	Managing Entrepreneurial Growth	3	ENT120
ENT225	Global Entrepreneurship	3	ENT120
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Microsoft Spreadsheet Excel^▲	<u>3</u>	ITD100 or Proficiency
		15	
TOTAL CREDITS		31	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – ENTREPRENEURSHIP MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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2079

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC130	Business Law & Ethics	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
ENT120	Entrepreneurship [^]	3	IDS102 or Proficiency	
ENT124	Managing Entrepreneurial Growth	3	ENT120	
ENT223	Entrepreneurship Practicum	3	<i>Sophomore standing or Department Chair approval</i>	
ENT225	Global Entrepreneurship	3	ENT120	
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT224	Human Resource Management	3	MGT121	
MKT121	Principles of Marketing	3	BUS221	
MKT221	Sales	3	MKT121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [■] or Microsoft Spreadsheet Excel [▲]	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
MTH108 or MTH125	Explorations in Modern Mathematics ^Ω or College Algebra [^]	3 or 4	(MTH091 and MTH092)+ or Proficiency (MTH093 and MTH094)++ or Proficiency	
	Select one (1) Arts & Humanities Elective from the list below [†]	3	Check for prerequisites	
Total		33-34		
TOTAL CREDIT HOURS		63-64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

ΩMTH125 should only be taken by students planning to transfer to a four-year institution

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

[†]Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	3	ENG011 or Proficiency
ENT120	Entrepreneurship^	3	IDS102 or Proficiency
		16	
<u>Second Semester</u>			
ENT124	Managing Entrepreneurial Growth	3	ENT120
BUS221	Microeconomics^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH125	College Algebra^	4	(MTH093 and MTH094)++
			or Proficiency
MGT121	Principles of Management	3	BUS121 or ENT120
ENT225	Global Entrepreneurship	3	ENT120
		15-16	
<u>Third Semester</u>			
MGT224	Human Resource Management	3	MGT121
COM121	Effective Speaking	3	
MKT121	Principles of Marketing	3	BUS221
ACC132	Financial Accounting*	4	BUS124
Arts & Humanities Elective ¹		3	Check for prerequisites
		16	
<u>Fourth Semester</u>			
ENT223	Entrepreneurship Practicum	3	Sophomore Standing or Department Chair Approval
ACC133	Managerial Accounting	4	ACC132
ACC130	Business Law & Ethics	3	
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MKT221	Sales	3	MKT121
		16	
		63-64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

++Minimum grade of "C" required

ΩMTH125 should only be taken by students planning to transfer to a four-year institution

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

* Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT - CULINARY ARTS

1516 Catalog
Effective Summer 2015

2080

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CUL122	Food Fundamentals	3	CUL119 (pre/co) and CUL120 (pre/co)	
CUL123	Fundamental Cooking – Preparation I	3	CUL122	
CUL124	Meat & Fish – Preparation II	3	CUL123	
CUL125	Culinary Nutrition/Menu Planning	3	CUL119 and CUL120	
CUL126	Food Purchasing – Inventory Control	3		
CUL221	Baking & Pastry – Preparation III	3	CUL124	
CUL222	Advanced Cookery – Preparation IV	3	CUL221 (pre/co)	
CUL223	Catering & Buffet/Event Management	3	CUL121 and CUL122	
CUL224	Beverage Management & Service	3	CUL119 and CUL120	
CUL230	Culinary Practicum	5	CUL222 (pre/co)	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
CUL119	Culinary ServSafe	1		
CUL120	Sanitation & Safety	2		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENT120	Entrepreneurship^	3	IDS102 or Proficiency	
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
SOC225	Cultural Diversity	3		
Total		31		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CUL119	Culinary ServSafe	1	
CUL120	Sanitation & Safety	2	
CUL122	Food Fundamentals	3	CUL119 (pre/co) and CUL120 (pre/co)
ENG124	College Composition^	3	ENG011 or Proficiency
ENT120	Entrepreneurship^	<u>3</u>	IDS102 or Proficiency
		13	
<u>Second Semester</u>			
CUL123	Fundamental Cooking – Preparation I	3	CUL122
CUL125	Culinary Nutrition/Menu Planning	3	CUL119 and CUL120
CUL126	Food Purchasing – Inventory Control	3	
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
MGT121	Principles of Management	3	BUS121 or ENT120
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		18	
<u>Third Semester</u>			
ACC130	Business Law & Ethics	3	
CUL124	Meat & Fish – Preparation II	3	CUL123
CUL223	Catering & Buffet/Event Management	3	CUL121 and CUL122
CUL224	Beverage Management & Service	3	CUL119 and CUL120
BUS222	Macroeconomics^	<u>3</u>	IDS102 or Proficiency
		15	
<u>Fourth Semester</u>			
CUL221	Baking & Pastry – Preparation III	3	CUL124
CUL230	Culinary Practicum	5	CUL222 (pre/co)
CUL222	Advanced Cookery – Preparation IV	3	CUL221 (pre/co)
BUS221	Microeconomics^	3	IDS102 or Proficiency
SOC225	Cultural Diversity	<u>3</u>	
		17	
	TOTAL CREDITS	63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – SPORTS MANAGEMENT MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

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Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT122	Introduction to Sports Management	3	BUS121	
MGT223	Business Decision Making	4	ACC133 and MGT121	
MGT232	International Business	3	BUS121	
MGT235	Facility and Event Management for Sports	3	MGT121 and MKT121 and ACC132	
MGT236	Sports and Ethics	3		
MKT121	Principles of Marketing	3	BUS221	
MKT225	Sports Sales	3	MKT121	
TECHNICAL ELECTIVE: Choose one (1) course				
MGT221	Supervision	3	MGT121	
MGT224	Human Resource Management	3	MGT121	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [■] or Spreadsheet Microsoft Excel [▲]	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122.

[▲] Course offerings vary by semester. Please see your academic advisor for availability.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
ACC130	Business Law & Ethics	3	
BUS121	Business Administration [^]	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals [■]	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel [▲]	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra ^{**}	3	
ENG124	College Composition [^]	<u>3</u>	ENG011 or Proficiency
		16	
<u>Second Semester</u>			
MKT121	Principles of Marketing	3	BUS221
MGT121	Principles of Management	3	BUS121 or ENT120
MGT122	Introduction to Sports Management	3	BUS121
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency
ACC132	Financial Accounting [*]	<u>4</u>	BUS124
		16	
<u>Third Semester</u>			
COM121	Effective Speaking	3	
BUS221	Microeconomics [^]	3	IDS102 or Proficiency
MKT225	Sports Sales	3	MKT121
ACC133	Managerial Accounting	4	ACC132
<i>Technical Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Fourth Semester</u>			
MGT223	Business Decision Making	4	ACC133 and MGT121
MGT235	Facility and Event Management for Sports	3	MGT121 and MKT121 and ACC132
MGT236	Sports and Ethics	3	
MGT232	International Business	3	BUS121
<i>Arts & Humanities Elective</i> ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
TOTAL CREDITS		64	

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122.

[▲]Course offerings vary by semester. Please see your academic advisor for availability.

^{*}Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

^{**}BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

² Technical Elective: MGT221, MGT224



ASSOCIATE OF APPLIED BUSINESS

MARKETING AND SALES MANAGEMENT

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

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Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC130	Business Law & Ethics	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MKT121	Principles of Marketing	3	BUS221	
MKT221	Sales	3	MKT121	
MKT222	Advertising	3	MKT121	
MKT229	Market Planning	4	MKT121	
TECHNICAL ELECTIVE: Choose three (3) courses				
MGT221	Supervision	3	MGT121	
MKT226	Supply Chain Management	3	MKT121	
MKT227	Consumer Behavior	3	MKT121	
MKT233	Market Research	3	MKT121 and MTH108	
MKT236	E-Marketing	3	MKT121	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	Take first semester	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122 or AOT226	Computer Applications for Professionals [■] or Spreadsheet Microsoft Excel [▲]	3 or 3	ITD100 or Proficiency ITD100 or Proficiency (MTH091 and MTH092)+ or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3		
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
Total		33		
TOTAL CREDIT HOURS		64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

[▲] Course offerings vary by semester. Please see your academic advisor for availability.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
BUS124	Business Analysis with Algebra**	3	
BUS221	Microeconomics^	3	IDS102 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
MTH108	Explorations in Modern Mathematics^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		16	
<u>Second Semester</u>			
MKT121	Principles of Marketing	3	BUS221
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
ACC132	Financial Accounting*	4	BUS124
COM121	Effective Speaking	3	
MGT121	Principles of Management	<u>3</u>	BUS121 or ENT120
		16	
<u>Third Semester</u>			
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MKT221	Sales	3	MKT121
MKT222	Advertising	3	MKT121
ACC133	Managerial Accounting	4	ACC132
<i>Technical Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Fourth Semester</u>			
MKT229	Market Planning	4	MKT121
ACC130	Business Law & Ethics	3	
<i>Technical Elective</i> ²		3	<i>Check for prerequisites</i>
<i>Technical Elective</i> ²		3	<i>Check for prerequisites</i>
<i>Arts & Humanities Elective</i> ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
TOTAL CREDITS		64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

² Technical Elective: MGT221, MKT226, MKT227, MKT233, MKT236



ASSOCIATE OF APPLIED BUSINESS

BUSINESS MANAGEMENT – GAMING MANAGEMENT MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Business & Entrepreneurial Studies Division

Management and Marketing Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC130	Business Law & Ethics	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MGT141	Introduction to Casino Management	3	BUS121	
MGT221	Supervision	3	MGT121	
MGT223	Business Decision Making	4	ACC133 and MGT121	
MGT224	Human Resource Management	3	MGT121	
MGT241	Casino Security	3	MGT141	
MGT243	Gaming Methods	3	MGT141	
MKT131	Casino Marketing	3	BUS121	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
BUS124	Business Analysis with Algebra**	3		
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG230	Business Communication	3	ENG124	
ITD122 or AOT226	Computer Applications for Professionals ^{^■} or Spreadsheet Microsoft Excel ^{^▲}	3 or 3	ITD100 or Proficiency ITD100 or Proficiency	
MTH124	Statistics [^]	3	MTH093++ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		64		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of “C” required

[■]Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

[▲] Course offerings vary by semester. Please see your academic advisor for availability.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BUS121	Business Administration^	3	IDS102 or Proficiency
ITD122	Computer Applications for Professionals^■	3	ITD100 or Proficiency
or	or	or	
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	3	
ENG124	College Composition^	3	ENG011 or Proficiency
MTH124	Statistics^	<u>3</u>	MTH093++ or Proficiency
		16	
<u>Second Semester</u>			
ACC130	Business Law & Ethics	3	
MKT131	Casino Marketing	3	BUS121
MGT121	Principles of Management	3	BUS121 or ENT120
MGT141	Introduction to Casino Management	3	BUS121
ACC132	Financial Accounting*	<u>4</u>	BUS124
		16	
<u>Third Semester</u>			
ENG230	Business Communication	3	ENG124
MGT221	Supervision	3	MGT121
MGT241	Casino Security	3	MGT141
ACC133	Managerial Accounting	4	ACC132
MGT224	Human Resource Management	<u>3</u>	MGT121
		16	
<u>Fourth Semester</u>			
MGT223	Business Decision Making	4	ACC133 and MGT121
COM121	Effective Speaking	3	
BUS222	Macroeconomics^	3	IDS102 or Proficiency
MGT243	Gaming Methods	3	MGT141
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		16	
TOTAL CREDITS		64	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

■Successful completion of ITD102, ITD104, ITD105, and ITD106 may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.

*Student may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241 (All ENG courses' prerequisite: ENG124)



ASSOCIATE OF APPLIED BUSINESS CORPORATE FINANCE

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

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Business & Entrepreneurial Studies Division

Accounting and Finance Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ACC132	Financial Accounting*	4	BUS124	
ACC133	Managerial Accounting	4	ACC132	
ACC228	Business Taxation	4	ACC132	
ACC237	Fraud Examination	3	ACC133	
ACC238	Financial Statement Analysis▲	4	ACC133	
BUS124	Business Analysis with Algebra**	3		
FIN220	Business Finance	3	ACC133	
FIN224	Risk Management▲	4	ACC132	
FIN227	Money & Banking▲	3	BUS124	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC130	Business Law & Ethics	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MGT121	Principles of Management	3	BUS121 or ENT120	
MTH124	Statistics^	3	MTH093++ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		31		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Students may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
BUS124	Business Analysis with Algebra**	<u>3</u>	
		13	
<u>Second Semester</u>			
ACC132	Financial Accounting*	4	BUS124
MGT121	Principles of Management	3	BUS121 or ENT120
COM121	Effective Speaking	3	
ACC130	Business Law & Ethics	3	
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Third Semester</u>			
BUS221	Microeconomics^	3	IDS102 or Proficiency
ACC133	Managerial Accounting	4	ACC132
ACC228	Business Taxation	4	ACC132
FIN227	Money & Banking▲	3	BUS124
MTH124	Statistics^	<u>3</u>	MTH093++ or Proficiency
		17	
<u>Fourth Semester</u>			
ACC237	Fraud Examination	3	ACC133
ACC238	Financial Statement Analysis▲	4	ACC133
BUS222	Macroeconomics^	3	IDS102 or Proficiency
FIN224	Risk Management▲	4	ACC132
FIN220	Business Finance	<u>3</u>	ACC133
		17	
TOTAL CREDITS		63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

*Students may elect to take ACC121 Principles of Accounting as an introduction to accounting prior to taking this course.

**BUS124 is the equivalent to BUS123. Students who have successfully completed BUS123 do not need to take BUS124.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹ Arts & Humanities Elective: HIS121, HIS122, PHL122, SOC225, ENG233, ENG234, ENG235, ENG236, ENG237, ENG240, ENG241
(All ENG courses' prerequisite: ENG124)



CAREER ENHANCEMENT CERTIFICATE ENTREPRENEURSHIP

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

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Business & Entrepreneurial Studies Division

Management and Marketing Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BUS121	Business Administration^	3	IDS102 or Proficiency	
ENT120	Entrepreneurship^	3	IDS102 or Proficiency	
ENT124	Managing Entrepreneurial Growth	3	ENT120	
ENT225	Global Entrepreneurship	3	ENT120	
TOTAL CREDIT HOURS		12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ENT120	Entrepreneurship^	3	IDS102 or Proficiency
BUS121	Business Administration^	<u>3</u>	IDS102 or Proficiency
		6	

Second Semester

ENT124	Managing Entrepreneurial Growth	3	ENT120
ENT225	Global Entrepreneurship	<u>3</u>	ENT120
		6	
TOTAL CREDITS		12	

^Based upon SSC placement score.

A dense, repeating pattern of various icons related to science, technology, and education. The icons include a microscope, DNA helix, lightbulb, gear, magnifying glass, book, test tube, flame, atom, satellite, camera, hand, eye, brain, and many others. The icons are in shades of gray and are scattered across the entire page.

EDUCATION

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED SCIENCE EARLY CHILDHOOD EDUCATION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
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1516 Catalog
Effective Summer 2015

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Education, Liberal Arts, and Mathematics Division

Education Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EDU122	Curriculum Design and Instruction++ (15 O.H.)	3	EDU131	
EDU123	Health & Nutrition (5 O.H.)	3	EDU131	
EDU124	Infant-Toddler Curriculum++ (5 O.H.)	2	EDU131	
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency	
EDU132	Observation, Assessment, and Group Management^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU221	Language Arts++ (10 O.H.)	3	EDU122 or EDU124	
EDU223	Community and Family-based Programs++ (5 O.H.)	3	EDU131	
EDU224	Early Childhood Program Administration	3	EDU131	
EDU225	The Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131	
EDU227	ECE Practicum and Seminar++ (210 Hours)	3	(EDU128 or EDU221) and EDU132 and EDU225 (pre/co)	
EDU228	Phonics for Young Children++ (5 O.H.)	3	EDU221	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity++	3		
PHL122	Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH108 or MTH124	Explorations in Modern Mathematics^ or Statistics^Ω	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
COM121	Effective Speaking	3		
BIO126 or BIO127	Science, Energy, & the Environment (lab) or Human Biology (lab)	4 or 4		
EDU126	Educational Technology	3		
EDU130	Intro to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU229	Educational Psychology (5 O.H.)	3	EDU130 or EDU131	
Total		32		
TOTAL CREDIT HOURS		64		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency
EDU132	Observation, Assessment, and Group Management^++ (10 O.H.)	3	ENG011 or Proficiency
EDU126	Educational Technology	3	
PSY121	General Psychology^	3	IDS102 or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		16	
<u>Second Semester</u>			
EDU122	Curriculum Design and Instruction++ (15 O.H.)	3	EDU131
EDU123	Health & Nutrition (5 O.H.)	3	EDU131
EDU225	The Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^Ω	3	MTH093++ or Proficiency
COM121	Effective Speaking	<u>3</u>	
		15	
<u>Third Semester</u>			
EDU130	Intro to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency
EDU221	Language Arts++ (10 O.H.)	3	EDU122 or EDU124
EDU223	Community & Family-based Programs++ (5 O.H.)	3	EDU131
SOC225	Cultural Diversity++	3	
EDU124	Infant-Toddler Curriculum++ (5 O.H.)	2	EDU131
EDU229	Educational Psychology (5 O.H.)	<u>3</u>	EDU130 or EDU131
		17	
<u>Fourth Semester</u>			
EDU224	Early Childhood Program Administration	3	EDU131
EDU227	ECE Practicum and Seminar++ (210 Hours)	3	(EDU128 or EDU221) and
			EDU132 and EDU225 (pre/co)
EDU228	Phonics for Young Children	3	EDU221
PHL122	Ethics	3	
BIO126	Science, Energy, & the Environment (lab)	4	
or	or	or	
BIO127	Human Biology (lab)	<u>4</u>	
		16	
	TOTAL CREDITS	64	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.



ASSOCIATE OF APPLIED SCIENCE

EARLY CHILDHOOD EDUCATION – INTERVENTION SPECIALIST MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Education, Liberal Arts, and Mathematics Division

Education Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EDU122	Curriculum Design and Instruction++ (15 O.H.)	3	EDU131	
EDU123	Health & Nutrition (5 O.H.)	3	EDU131	
EDU125	Children w/Physical Exceptionalities++ (5 O.H.)	3	EDU131	
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency	
EDU132	Observation, Assessment, and Group Management^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU221	Language Arts++ (10 O.H.)	3	EDU122 or EDU124	
EDU223	Community & Family-based Programs++ (5 O.H.)	3	EDU131	
EDU225	The Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131	
EDU227	ECE Practicum and Seminar++ (210 Hours)	3	(EDU128 or EDU221) and EDU132 and EDU225 (pre/co)	
EDU230	Children w/Socioemotional Exceptionalities++ (5 O.H.)	3	EDU131	
	Total	30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity++	3		
PHL122	Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH108 or MTH124	Explorations in Modern Mathematics^ or Statistics^Ω	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
COM121	Effective Speaking	3		
BIO126 or BIO127	Science, Energy, and the Environment (lab) or Human Biology (lab)	4 or 4		
EDU126	Educational Technology	3		
EDU130	Intro to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU229	Educational Psychology (5 O.H.)	3	EDU130 or EDU131	
	Total	32		
	TOTAL CREDIT HOURS	62		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency
EDU132	Observation, Assessment, and Group Management^++ (10 O.H.)	3	ENG011 or Proficiency
EDU126	Educational Technology	3	
PSY121	General Psychology^	3	IDS102 or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		16	
<u>Second Semester</u>			
EDU122	Curriculum Design and Instruction++ (15 O.H.)	3	EDU131
EDU123	Health & Nutrition (5 O.H.)	3	EDU131
EDU225	The Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^Ω	3	MTH093++ or Proficiency
COM121	Effective Speaking	<u>3</u>	
		15	
<u>Third Semester</u>			
EDU125	Children w/Physical Exceptionalities++ (5 O.H.)	3	EDU131
EDU130	Intro to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency
EDU221	Language Arts++ (10 O.H.)	3	EDU122 or EDU124
EDU223	Community & Family-based Programs++ (5 O.H.)	3	EDU131
SOC225	Cultural Diversity++	<u>3</u>	
		15	
<u>Fourth Semester</u>			
EDU227	ECE Practicum and Seminar++ (210 Hours)	3	(EDU128 or EDU221) and EDU132 and EDU225 (<i>pre/co</i>)
EDU229	Educational Psychology (5 O.H.)	3	EDU130 or EDU131
EDU230	Children w/Socioemotional Exceptionalities++ (5 O.H.)	3	EDU131
PHL122	Ethics	3	
BIO126	Science, Energy, and the Environment (lab)	4	
or	or	or	
BIO127	Human Biology (lab)	<u>4</u>	
		16	
TOTAL CREDITS		62	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.



ASSOCIATE OF APPLIED SCIENCE

EARLY CHILDHOOD EDUCATION – INFANT AND TODDLER MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
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Education, Liberal Arts, and Mathematics Division

Education Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EDU123	Health and Nutrition (5 O.H.)	3	EDU131	
EDU124	Infant-Toddler Curriculum++ (5 O.H.)	2	EDU131	
EDU127	Infant and Toddler Group Care++ (5 O.H.)	3	EDU131	
EDU128	Responsive Infant and Toddler Environment++ (5 O.H.)	3	EDU131	
EDU129	Relationship Development for Infants and Toddlers++ (5 O.H.)	3	EDU127 (pre or co-req)	
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency	
EDU132	Observation, Assessment, and Group Management^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU221	Language Arts ++ (10 O.H.)	3	EDU122 or EDU124	
EDU223	Community and Family-based Programs++ (5 O.H.)	3	EDU131	
EDU225	The Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131	
EDU227	ECE Practicum and Seminar++ (210 Hours)	3	(EDU128 or EDU221) and EDU132 and EDU225 (pre/co)	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity++	3		
PHL122	Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH108 or MTH124	Explorations in Modern Mathematics^ or Statistics^Ω	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
COM121	Effective Speaking	3		
BIO126 or BIO127	Science, Energy, and the Environment (lab) or Human Biology (lab)	4 or 4		
EDU126	Educational Technology	3		
EDU130	Intro to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU229	Educational Psychology (5 O.H.)	3	EDU130 or EDU131	
Total		32		
TOTAL CREDIT HOURS		64		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency
EDU132	Observation, Assessment, and Group Management^++ (10 O.H.)	3	ENG011 or Proficiency
EDU126	Educational Technology	3	
ENG124	College Composition^	3	ENG011 or Proficiency
COM121	Effective Speaking	<u>3</u>	
		16	
<u>Second Semester</u>			
EDU128	Responsive Infant and Toddler Environment++ (5 O.H.)	3	EDU131
EDU123	Health and Nutrition (5 O.H.)	3	EDU131
EDU124	Infant and Toddler Curriculum++ (5 O.H.)	2	EDU131
EDU127	Infant and Toddler Group Care++ (5 O.H.)	3	EDU131
PSY121	General Psychology^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^Ω	<u>3</u>	MTH093++ or Proficiency
		17	
<u>Third Semester</u>			
SOC225	Cultural Diversity++	3	
EDU130	Intro to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency
EDU221	Language Arts++ (10 O.H.)	3	EDU122 or EDU124
EDU229	Educational Psychology (5 O.H.)	3	EDU130 or EDU131
BIO126	Science, Energy, and the Environment (lab)	4	
or	or	or	
BIO127	Human Biology (lab)	<u>4</u>	
		16	
<u>Fourth Semester</u>			
EDU129	Relationship Development for Infants and Toddlers++ (5 O.H.)	3	EDU127 (<i>pre or co-req</i>)
EDU223	Community and Family-based Programs++ (5 O.H.)	3	EDU131
EDU225	The Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131
EDU227	ECE Practicum and Seminar++ (210 hours)	3	(EDU128 or EDU221) and
			EDU132 and EDU225 (<i>pre/co</i>)
PHL122	Ethics	<u>3</u>	
		15	
TOTAL CREDITS		64	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

ΩMTH124 should only be taken by students planning to transfer to a four-year institution.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.



ASSOCIATE OF SCIENCE EDUCATION

1516 Catalog

Effective Summer 2015

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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Education, Liberal Arts, and Mathematics Division

Education Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS				
EDU126	Educational Technology	3		
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG231	College Composition II (required)	3	ENG124	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
COM122	Interpersonal Communication	3		
COM123	Intergroup Communications	3	ENG124	
COM125	Introduction to Communication Theory	3	IDS102 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours minimum				
PSC121	Political Science	3		
PSY121	General Psychology^ (required)	3	IDS102 or Proficiency	
SOC121	Sociology^ (required)	3	IDS102 or Proficiency	
SOC225	Cultural Diversity (required)	3		
PSY122	Psychology of Adjustment	3	PSY121	
PSY123	Human Growth and Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY221	Abnormal Psychology	3	PSY121	
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 9 credit hours minimum				
COM121	Effective Speaking (required)	3		
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Lit: 1785 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PHL122	Ethics	3	1	
SCIENCES & MATHEMATICS				
<i>Natural and Physical Sciences: 8 semester credit hours minimum (1 lab course required)</i>				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO126	Science, Energy, and the Environment (lab)	4		
BIO127	Human Biology (lab) (required)	4		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org., and Bio Chemistry I (lab)^▲	4	CHM101 or Proficiency	
CHM122	Gen., Org., and Bio Chemistry II (lab)	4	CHM121	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
<i>Mathematics: 3-4 semester credit hours minimum</i>				
MTH124 or MTH 125	Statistics^ or College Algebra^	3 Or 4	MTH093++ or Proficiency (MTH093 and MTH094)++ or Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
MTH221	Concepts of Calculus^	3	MTH135 or (MTH125 and MTH130) or Proficiency	
MTH223	Analytic Geometry and Calculus I^	4	MTH135 or (MTH125 and MTH130) or Proficiency	
EDUCATION: 9 credit hours required				
EDU130	Introduction to the Teaching Profession^++ (10 O.H.)	3	ENG011 or Proficiency	
EDU225	Exceptional Child++ (5 O.H.)	3	EDU130 or EDU131	
EDU229	Educational Psychology++ (5 O.H.)	3	EDU130 or EDU131	
ADDITIONAL ELECTIVES TO COMPLETE DEGREE*		12-14	<i>Check for prerequisites</i>	
TOTAL CREDIT HOURS		60-65		

^Based on SSC placement scores.

++Minimum grade of “C” required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Based on teacher licensure area of concentration (see next page).

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ASSOCIATE OF SCIENCE ELECTIVES

Students should select additional courses from the previous page, choose elective courses from the list below or receive approval from the department chair for other related electives. Please see your academic advisor or transfer institution for assistance with course selection.

ADDITIONAL EDUCATION, LIBERAL ARTS, MATH AND SCIENCE COURSES*	
Biology	Early Childhood Education and Intervention Specialist
BIO101 Introduction to Anatomy and Physiology (3)	EDU131 Intro to Child Development (3)
BIO123 Principles of Human Structure and Function (lab) (5)	EDU132 Observation, Assessment, and Group Management (3)
BIO124 Human Diseases (3)	EDU122 Curriculum Design and Instruction (3)
	EDU123 Health and Nutrition (3)
Chemistry	EDU125 Children with Physical Exceptionalities (3)
CHM141 General Chemistry (lab) (5)	EDU221 Language Arts (3)
CHM142 General Chemistry (lab) (5)	EDU223 Community and Family-based Programs (3)
	EDU224 Early Childhood Program Administration (3)
Deaf Education	EDU228 Phonics (3)
ASL121 Introduction to the Deaf Culture and Community (3)	EDU230 Children with Socioemotional Exceptionalities (3)
ASL122 American Sign Language I (4)	
ASL123 Introduction to Interpreting (3)	English
ASL124 American Sign Language II (4)	ENG125 Technical Editing and Layout (3)
ASL221 American Sign Language III (4)	ENG227 Writing for Media (3)
ASL222 ASL Practicum and Seminar (3)	ENG228 Writing for the Web (3)
	ENG229 Grant Writing (3)
Foreign Language	ENG235 Introduction to Shakespeare (3)
CHN100 Elementary Chinese I (4)	ENG236 American Lit: Colonial to 1865 (3)
CHN200 Elementary Chinese II (4)	ENG237 American Lit: 1865 to present (3)
SPN100 Elementary Spanish I (4)	ENG238 Introduction to Creative Writing (3)
SPN200 Elementary Spanish II (4)	ENG239 Film Appreciation (3)
	ENG240 Women's Literature (3)
Social and Behavioral Sciences	ENG241 Major Modern Writers (3)
SOC124 US Social Systems (3)	
SOC222 Juvenile Delinquency (3)	

^Based on SSC placement scores.

*Based on teacher licensure area of concentration.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ENG124	College Composition^	3	ENG011 or Proficiency
SOC121	Sociology^	3	IDS102 or Proficiency
PSY121	General Psychology^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
EDU130	Introduction to the Teaching Profession^++	3	ENG011 or Proficiency
		16	
<u>Second Semester</u>			
MTH124	Statistics^	3	MTH093++ or Proficiency
or	or	or	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
SOC225	Cultural Diversity	3	
ENG231	College Composition II	3	ENG124
EDU126	Educational Technology	3	
Additional Elective*		3-5	Check for prerequisites
		15-18	
<u>Third Semester</u>			
Arts & Humanities Elective ¹		3	Check for prerequisites
BIO127	Human Biology (lab)	4	
EDU229	Educational Psychology++	3	EDU130 or EDU131
Additional Elective*		3-5	Check for prerequisites
Additional Elective*		3-5	Check for prerequisites
		16-20	
<u>Fourth Semester</u>			
Arts & Humanities Elective ¹		3	Check for prerequisites
EDU225	Exceptional Child++	3	EDU130 or EDU131
Natural & Physical Science Elective ²		4	Check for prerequisites
Additional Elective*		3-5	Check for prerequisites
		13-15	
TOTAL CREDITS		60-65	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Arts & Humanities Electives: ENG233, ENG234, HIS121, HIS122, HIS221, HIS222, PHL122.

² Natural & Physical Science Elective: BIO121, BIO122, BIO126, BIO127, BIO141, BIO142, BIO221, CHM101, CHM121, CHM122, PHY101, PHY121, PHY122.

*Additional Electives: Based on teacher licensure area of concentration. (See previous page for additional elective options.)



ONE-YEAR CERTIFICATE AMERICAN SIGN LANGUAGE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

1075

Education, Liberal Arts, and Mathematics Division

Education Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ASL121	Introduction to the Deaf Culture and Community++ (5 O.H.)	3		
ASL122	American Sign Language I++ (10 O.H.)	4	ASL121 (<i>pre or co-req</i>)	
ASL123	Introduction to Interpreting++ (5 O. H.)	3		
ASL124	American Sign Language II++ (10 O. H.)	4	ASL122	
ASL221	American Sign Language III++ (10 O.H.)	4	ASL124	
ASL222	American Sign Language Practicum/Seminar++ (210 Hours)	3	ASL123 and ASL221 (<i>pre or co-req</i>)	
	Total	21		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ENG124	College Composition^	3	ENG011 or Proficiency	
COM121	Effective Speaking	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC123	Dynamics of the Family	3		
	Total	13		
TOTAL CREDIT HOURS		34		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE AMERICAN SIGN LANGUAGE	1075

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ASL121	Introduction to the Deaf Culture and Community++ (5 O.H.)	3	
ASL122	American Sign Language I++ (10 O.H.)	4	ASL121 (<i>pre or co-req</i>)
COM121	Effective Speaking	<u>3</u>	
		11	
<u>Second Semester</u>			
ASL124	American Sign Language II++ (10 O.H.)	4	ASL122
ASL123	Introduction to Interpreting++ (5 O.H.)	3	
ENG124	College Composition^	3	ENG011 or Proficiency
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		13	
<u>Third Semester</u>			
ASL221	American Sign Language III++ (10 O.H.)	4	ASL124
ASL222	American Sign Language Practicum/Seminar++ (210 Hours)	3	ASL123 and ASL221 (<i>pre or co-req</i>)
SOC123	Dynamics of the Family	<u>3</u>	
		10	
	TOTAL CREDITS	34	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

Note: O.H. = Observation Hours Required. Students must successfully complete all required observation hours and other course assignments in order to pass the course.



CAREER ENHANCEMENT CERTIFICATE

INFANT TODDLER

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

1049

Education, Liberal Arts, and Mathematics Division

Education Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EDU123	Health and Nutrition (5 O.H.)	3	EDU131	
EDU124	Infant Toddler Curriculum++ (5 O.H.)	2	EDU131	
EDU127	Infant and Toddler Group Care++ (5 O.H.)	3	EDU131	
EDU128	Responsive Infant and Toddler Environment++ (5 O.H.)	3	EDU131	
EDU129	Relationship Development for Infants and Toddlers++ (5 O.H.)	3	EDU127 (pre or co-req)	
EDU131	Introduction to Child Development^++ (15 O.H.)	3	ENG011 or Proficiency	
TOTAL CREDIT HOURS		17		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

EDU131	Introduction to Child Development^++ (15 O.H.)	<u>3</u>	ENG011 or Proficiency
		3	

Second Semester

EDU128	Responsive Infant and Toddler Environment++ (5 O.H.)	3	EDU131
EDU123	Health and Nutrition (5 O.H.)	3	EDU131
EDU124	Infant Toddler Curriculum++ (5 O.H.)	<u>2</u>	EDU131
		8	

Third Semester

EDU127	Infant and Toddler Group Care++ (5 O.H.)	3	EDU131
EDU129	Relationship Development for Infants and Toddlers++ (5 O.H.)	<u>3</u>	EDU127 (pre or co-req)
		6	
TOTAL CREDITS		17	

^Based upon SSC placement scores.

++Minimum grade of "C" required.

Note: O.H. = Observation Hours required. Students must successfully complete all required observation hours and other course assignments in order to pass this course.



CAREER ENHANCEMENT CERTIFICATE

EARLY CHILDHOOD ADMINISTRATOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

1054

Education, Liberal Arts, and Mathematics Division

Education Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EDU131	Introduction to Child Development ^{^++} (15 O.H.)	3	ENG011 or Proficiency	
BUS121	Business Administration ^{^++}	3	IDS102 or Proficiency	
MGT121	Principles of Management ⁺⁺	3	BUS121	
EDU224	Early Childhood Program Administration	3	EDU131	
EDU231	ECE Administrator Practicum and Seminar ⁺⁺	3	MGT121 (pre/co-req)	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
BUS121	Business Administration ^{^++}	3	IDS 102 or Proficiency
EDU131	Introduction to Child Development ^{^++} (15 O.H.)	<u>3</u>	ENG011 or Proficiency
		6	

Second Semester

EDU224	Early Childhood Program Administration	3	EDU131
MGT121	Principles of Management ⁺⁺	<u>3</u>	BUS121
		6	

Third Semester

EDU231	ECE Administrator Practicum and Seminar ⁺⁺	<u>3</u>	MGT121 (pre/co-req)
		3	
	TOTAL CREDITS	15	

[^]Based upon SSC placement scores.

⁺⁺Minimum grade of "C" required.

Note: O.H. = Observation Hours required. Students must successfully complete all required observation hours and other course assignments in order to pass this course.



CAREER ENHANCEMENT CERTIFICATE AMERICAN SIGN LANGUAGE

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1516 Catalog
Effective Summer 2015

1074

Education, Liberal Arts, and Mathematics Division

Education Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ASL121	Introduction to the Deaf Culture & Community++ (5 O.H.)	3		
ASL122	American Sign Language I++ (10 O.H.)	4	ASL121 (pre/co-req)	
ASL124	American Sign Language II++ (10 O.H.)	4	ASL122	
ASL221	American Sign Language III++ (10 O.H.)	4	ASL124	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

ASL121	Introduction to the Deaf Culture & Community++ (5 O.H.)	<u>Credit Hours</u> 3	<u>Pre- and Co-requisites</u>
ASL122	American Sign Language I++ (10 O.H.)	4	ASL121 (pre/co-req)
		7	

Second Semester

ASL124	American Sign Language II++ (10 O.H.)	4	ASL122
		4	

Third Semester

ASL221	American Sign Language III++ (10 O.H.)	4	ASL 124
		4	
	TOTAL CREDITS	15	

^Based upon SSC placement scores.

++Minimum grade of "C" required.

Note: O.H. = *Observation Hours Required*. Students must successfully complete all required observation hours and other course assignments in order to pass the course.

The American Sign Language (ASL) Career Enhancement Certificate is designed to provide individuals with an opportunity to gain basic skills in American Sign Language as well as enhance their knowledge and understanding of the deaf culture.

Completion of the ASL Career Enhancement certificate does not prepare an individual to be an interpreter.

Each course requires the student to participate in prescribed observations related to the ASL curriculum. Test-out options or life experience credit for ASL courses are not available.

A dense, repeating pattern of various icons related to science, technology, and engineering. The icons include gears, lightbulbs, DNA helices, microscopes, test tubes, radiation symbols, satellites, and various mechanical parts. The pattern is light gray and covers the entire page.

ENGINEERING TECHNOLOGIES

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED SCIENCE AUTOMOTIVE TECHNOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

2250

Engineering Technology/Information Technology Division

Automotive and Transportation Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System Performance Diagnosis	3	AUT125	
AUT223	Advanced Automotive Electronics	3	AUT125	
AUT227	Computerized Vehicle Control	3	AUT125	
AUT233	Automotive Diagnostic Applications	2	AUT223	
AUT234	Alternative Fuels and Advanced Automotive Technologies	2	AUT223	
	<i>See Technical Elective list page**</i>	2-5	<i>Check for prerequisites</i>	
Total		30-33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
AUT121	Automotive Technical Skills	2		
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
AUT225	Automotive Drivetrain I	3	AUT121	
AUT226	Automotive Drivetrain II	3	AUT121	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH106	Math for Technology^ Ω	3	(MTH091 and MTH092) or Proficiency	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PHL122	Ethics	3		
Total		30		
TOTAL CREDIT HOURS		60-63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

Ω MTH125 College Algebra should be taken by students planning to transfer to a four-year university

**See Technical Elective list page.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
AUT121	Automotive Service Skills	2	
AUT122	Automotive Systems and Engine Applications	4	AUT121
AUT123	Engine Diagnosis and Major Service	4	AUT121
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		14	
<u>Second Semester</u>			
AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Systems	4	AUT121
AUT126	Automotive HVAC Systems	2	AUT121
MTH106	Math for Technology^ Ω	3	(MTH091 and MTH092) or Proficiency
PHL122	Ethics	<u>3</u>	
		16	
<u>Third Semester</u>			
AUT221	Fuel and Emissions Management Systems	3	AUT125
AUT222	Engine Systems Performance Diagnosis	3	AUT125
AUT223	Advanced Automotive Electronics	3	AUT125
AUT227	Computerized Vehicle Control	3	AUT125
BUS122	Basic Economics^	<u>3</u>	IDS102 or Proficiency
		15	
<u>Fourth Semester</u>			
AUT225	Automotive Drivetrain I	3	AUT121
AUT226	Automotive Drivetrain II	3	AUT121
AUT233	Automotive Diagnostics Applications	2	AUT223
AUT234	Alternative Fuels and Advanced Automotive Technologies	2	AUT223
ENG221	Technical Report Writing	3	ENG124
	<i>See Technical Elective list page**</i>	<u>2-5</u>	<i>Check for prerequisites</i>
		15-18	
	TOTAL CREDITS	60-63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

Ω MTH125 College Algebra should be taken by students planning to transfer to a four-year university

**See Technical Elective list page.

1516 Catalog Effective Summer 2015	AUTOMOTIVE TECHNOLOGY	2250

TECHNICAL ELECTIVES: Two (2) credit hours minimum				2250
Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT130	Automotive Safety and Shops Standards	2		
AUT131	Automotive Detailing Business Practices	2		
AUT132	Automotive Exterior Detailing	3		
AUT133	Automotive Interior Detailing	2	AUT132	
AUT134	Automotive Under-Hood and Under-Car Detailing	2	AUT132	
AUT135	Advanced Automotive Detailing Techniques	3	AUT132	
AUT136	Practical Automotive Detailing Applications	2	AUT132	
AUT137	ASE Test Preparation	2		
AUT138	Applied Automotive Principles	4		
AUT141	Vehicle Chassis Systems	2		
AUT142	Auto Electrical Systems Toyota	2		
AUT143	Auto HVAC Systems Toyota 750	1		
AUT251	Automotive Drivetrains I	1		
AUT252	Automotive Drivetrains II	1		
AUT253	Computerized Vehicle Controls	2		
AUT171	Introduction to Honda PACT	1		
AUT172	Honda Engine Mechanical	2		
AUT173	Honda Steering and Suspension	1	AUT124	
AUT174	Honda Braking Systems	1	AUT124	
AUT175	Honda Electrical Systems	2	AUT125	
AUT176	Honda HVAC Systems	1	AUT125	
AUT277	Honda Computerized Engine	2	AUT223	
AUT271	Honda Fuel and Emissions System	1	AUT221	
AUT273	Honda Advanced Diagnostic Applications	1	AUT223	
AUT275	Honda Manual Transmissions	1	AUT225	
AUT276	Honda Automatic Transmissions	1	AUT226	
AUT181	Intro to CAT Lift Trucks	1	AUT121	
AUT182	CAT Operator Safety Training	1	AUT121	
AUT183	CAT Service Information System	1	AUT121	
AUT184	CAT Hydraulic Systems	1	AUT121	
AUT185	CAT Internal Combustion Engine	2	AUT121	
AUT186	CAT Masts and Lift Mechanisms	1	AUT121	
AUT187	CAT Electrical Systems	3	AUT121	
AUT188	CAT Steering Systems	1	AUT121	
AUT189	CAT Braking Systems	1	AUT121	
AUT281	CAT Differentials and Front Axles	1	AUT121	
AUT282	CAT Transmissions	2	AUT121	
AUT283	CAT Fuel Systems (LP, Gasoline)	2	AUT121	
AUT254	Automotive Aftermarket Vehicle Interior Modifications	3	AUT125	
AUT255	Automotive Aftermarket Vehicle Exterior Modifications	3	AUT125	
AUT256	Automotive Aftermarket Vehicle Powertrain Modifications	3	AUT123	
AUT257	Automotive Aftermarket Vehicle Chassis Modifications	3	AUT124	
AUT191	Automotive CO-OP 1	2		
AUT192	Automotive CO-OP 2	2		
AUT193	Automotive CO-OP 3	2		
AUT194	Automotive CO-OP 4	2		
AUT 224	Auto Diesel Systems	2	AUT 121	
AUT228	Auto Service Management	2		
AUT230	Technical Project	2		
TOY101	Introduction to Toyota T-TEN	3		
TOY102	Toyota Electrical Systems I	5	TOY101	
TOY103	Toyota Steering, Suspension, and Handling	5	TOY102	
TOY104	Toyota Engine Diagnosis and Repair	5	TOY101	
TOY105	Toyota Engine Controls I	5	TOY104	
TOY106	Toyota Manual Transmissions and Drivetrains	5	TOY102	
TOY201	Toyota Electrical Systems II	5	TOY102	
TOY202	Toyota Automotive Braking Systems	5	TOY201	
TOY203	Toyota HVAC Systems	5	TOY201	
TOY204	Toyota Engine Controls II	5	TOY105	
TOY205	Toyota Automatic Transmissions	5	TOY204	



ASSOCIATE OF APPLIED SCIENCE GENERAL MOTORS ASEP PROGRAM

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

2251

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System Performance Diagnosis	3	AUT125	
AUT223	Advanced Automotive Electronics	3	AUT125	
AUT227	Computerized Vehicle Control	3	AUT125	
AUT191	Automotive CO-OP 1	2		
AUT192	Automotive CO-OP 2	2		
AUT193	Automotive CO-OP 3	2		
	<i>See Technical Elective list page**</i>	2	<i>Check for prerequisites</i>	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
AUT121	Automotive Technical Skills	2		
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
AUT225	Automotive Drivetrain I	3	AUT121	
AUT226	Automotive Drivetrain II	3	AUT121	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH106	Math for Technology^ Ω	3	(MTH091 and MTH092) or Proficiency	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PHL122	Ethics	3		
Total		30		
TOTAL CREDIT HOURS		62		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

Ω MTH 125 College Algebra should be taken by students planning to transfer to a four-year university.

**See Technical Elective list page

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
AUT121	Automotive Service Skills	2	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121
ENG124	College Composition^	3	ENG011 or Proficiency
MTH106	Math for Technology^ Ω	<u>3</u>	(MTH091 and MTH092) or Proficiency
		13	
<u>Second Semester</u>			
AUT122	Automotive Systems and Engine Technology	4	AUT121
AUT123	Engine Diagnosis and Major Service	4	AUT121
AUT191	Automotive CO-OP 1	2	
BUS122	Basic Economics^	<u>3</u>	IDS102 or Proficiency
		13	
<u>Summer Semester</u>			
AUT124	Vehicle Chassis Systems	4	AUT121
AUT126	Automotive HVAC Systems	2	AUT121
	<i>Technical Elective**</i>	<u>2</u>	<i>Check for prerequisites</i>
		8	
<u>Third Semester</u>			
AUT221	Fuel and Emissions Management Systems	3	AUT125
AUT222	Engine Systems Performance Diagnosis	3	AUT125
AUT223	Advanced Automotive Electronics	3	AUT125
AUT192	Automotive CO-OP 2	2	
PHL122	Ethics	<u>3</u>	
		14	
<u>Fourth Semester</u>			
AUT227	Computerized Vehicle Control	3	AUT125
AUT225	Automotive Drivetrain I	3	AUT121
AUT226	Automotive Drivetrain II	3	AUT121
AUT193	Automotive CO-OP 3	2	
ENG221	Technical Report Writing	<u>3</u>	ENG124
		14	
	TOTAL CREDITS	62	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

Ω MTH 125 College Algebra should be taken by students planning to transfer to a four-year university.

**See *Technical Elective* list page

1516 Catalog Effective Summer 2015	GENERAL MOTORS ASEP PROGRAM	2251

TECHNICAL ELECTIVES: Two (2) credit hours minimum				2251
Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT 144	Electrical/Electronics Terminals and Connectors	1		
AUT 145	Advanced HVAC Diagnostics	1		
AUT 146	Electronic Suspension Systems	1		
AUT 147	Foundation Brakes/ABS Systems Service	1		
AUT 148	Engine Mechanical Diagnosis and Measurement	2		
AUT 150	GM Moveable Roof Systems	2		
AUT 194	Automotive CO-OP 4	2		
AUT 200	ACDelco HVAC System Diagnostics	1		
AUT 201	ACDelco Duramax 6600 Diesel Engine Performance	1		
AUT 202	ACDelco Braking Systems	1		
AUT 203	ACDelco GM OBD-II Diagnostics	1		
AUT 204	ACDelco Chrysler OBD-II EEC Diagnostics	1		
AUT 205	ACDelco Ford OBD-II EEC Diagnostics	1		
AUT 206	ACDelco Honda Emissions and Driveability	1		
AUT 207	ACDelco Engine Performance	1		
AUT 208	ACDelco Body Controls and Communication Sys.	1		
AUT 209	ACDelco GM Supplemental Restraints	1		
AUT 210	ACDelco Battery, Starting, and Charging Systems	1		
AUT 211	ACDelco Vibration Control Diagnosis	1		
AUT 212	ACDelco Advanced Driveability	1		
AUT 213	ACDelco Engine Performance Computer Controls	1		
AUT 214	ACDelco Electrical Circuit Diagnosis and Repair	1		
AUT 215	ACDelco Emission System Diagnosis	1		
AUT 216	ACDelco HVAC Advanced Refrigerant Diagnosis	1		
AUT 217	ACDelco HVAC Controls, Operation, and Diagnosis	1		
AUT 218	ACDelco Engine Performance Fuel and Air Induction Systems	1		
AUT 242	Entertainment Systems	2		
AUT 243	GM Air Bag Systems	1		
AUT 244	Allison LCT 1000 Automatic Transmission Diagnosis and Repair	2		
AUT 245	Vibration Correction	1		
AUT 246	Rear Axle & Propeller Shaft	2		
AUT 247	Vehicle Emissions, Enhanced Testing, and Diagnostics	1		
AUT 248	GM Powertrain Performance	2		
AUT 249	Diesel Engine Performance 2001	2		
AUT 250	Automotive Transmission/Transaxle Diagnostics	2		
AUT 284	GM Waterleak and Wind Noise Management	1		
AUT 285	GM Diesel Engine Performance Certification Assessment	1		
AUT 286	GM Manual Drivetrain and Axle Certification Assessment	1		
AUT 287	GM HVAC Certification Assessment	1		
AUT 288	GM Engine Performance Certification Assessment	1		
AUT 289	GM Automatic Transmission – Transaxle Diagnostics Certification Assessment	1		
AUT 290	GM Engine Repair Certification Assessment	1		
AUT 291	Electrical/Electronics Certification Assessment	2		
AUT 292	GM Steering and Suspension Certification Assessment	1		
AUT 293	GM Brakes Certification Assessment	1		



ONE-YEAR CERTIFICATE

1-YEAR AUTOMOTIVE TECHNOLOGY

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Effective Summer 2015

2256

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Stark State College 1-Year Automotive Technology Certificate contains the core automotive courses that are in the automotive technology associate degree program and are structured to quickly prepare students for a productive career in the automotive service and repair industry.

In our two state-of-the-art automotive facilities, students use the latest tools and diagnostic equipment to apply practical service techniques to our fleet of late-model vehicles. This builds hands-on skills that can be applied immediately upon graduation.

The curriculum is accredited by the National Automotive Technicians Education Foundation (NATEF) preparing students to pursue Automotive Service Excellence (ASE) certification. Students successfully completing this course of study will receive a 1-Year Automotive Technology Certificate from Stark State College.

Students desiring to obtain an associate's degree can choose to add the academic courses that are listed on the Automotive Technology Program (2250) advising sheet.

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar [^]	1	<i>Take first semester</i>	
AUT121	Automotive Technical Skills	2		
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System Performance Diagnosis	3	AUT125	
AUT223	Advanced Automotive Electronics	3	AUT125	
AUT225	Automotive Drivetrain I	3	AUT121	
AUT226	Automotive Drivetrain II	3	AUT121	
AUT227	Computerized Vehicle Control	3	AUT125	
AUT233	Automotive Diagnostic Applications	2	AUT223	
TOTAL CREDIT HOURS		41		

[^]To promote student success, this course should be taken in the first semester

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE 1-YEAR AUTOMOTIVE TECHNOLOGY	2256

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^	1	<i>Take first semester</i>
AUT121	Automotive Technical Skills	2	
AUT122	Automotive Systems and Engine Technology	4	AUT121
AUT123	Engine Diagnosis and Major Service	4	AUT121
AUT125	Automotive Electrical and Accessory Systems	<u>4</u>	AUT121
		15	
<u>Second Semester</u>			
AUT124	Vehicle Chassis Systems	4	AUT121
AUT126	Automotive HVAC Systems	2	AUT121
AUT221	Fuel and Emissions Management Systems	3	AUT125
AUT223	Advanced Automotive Electronics	3	AUT125
AUT227	Computerized Vehicle Control	<u>3</u>	AUT125
		15	
<u>Third Semester</u>			
AUT222	Engine System Performance Diagnosis	3	AUT125
AUT225	Automotive Drivetrain I	3	AUT121
AUT226	Automotive Drivetrain II	3	AUT121
AUT233	Automotive Diagnostic Applications	<u>2</u>	AUT223
		11	
TOTAL CREDITS		41	

^To promote student success, this course should be taken in the first semester



ONE-YEAR CERTIFICATE

COMPREHENSIVE AUTOMOTIVE TECHNOLOGY CERTIFICATE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2257

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Stark State College Comprehensive Automotive Technology Certificate contains the core automotive courses that are in the automotive technology associate degree program and are structured to prepare students for a productive career in the automotive service and repair industry.

In our two state-of-the-art automotive facilities, students use the latest tools and diagnostic equipment to apply practical service techniques to our fleet of late-model vehicles. This builds hands-on skills that can be applied immediately upon graduation.

The curriculum is accredited by the National Automotive Technicians Education Foundation (NATEF) preparing students to pursue Automotive Service Excellence (ASE) certification. Students successfully completing this course of study will receive a Comprehensive Automotive Technology Certificate from Stark State College.

Students desiring to obtain an associate's degree can choose to add the academic courses that are listed on the Automotive Technology Program (2250) advising sheet.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar [^]	1	<i>Take first semester</i>	
AUT121	Automotive Technical Skills	2		
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System Performance Diagnosis	3	AUT125	
AUT223	Advanced Automotive Electronics	3	AUT125	
AUT225	Automotive Drivetrain I	3	AUT121	
AUT226	Automotive Drivetrain II	3	AUT121	
AUT227	Computerized Vehicle Control	3	AUT125	
AUT233	Automotive Diagnostic Applications	2	AUT223	
AUT427	Alternative Fuels and Advance Automotive Technologies	2	AUT223	
TOTAL CREDIT HOURS		43		

[^]To promote student success, this course should be taken in the first semester.

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STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^	1	<i>Take first semester</i>
AUT121	Automotive Technical Skills	2	
AUT122	Automotive Systems and Engine Technology	4	AUT121
AUT123	Engine Diagnosis and Major Service	<u>4</u>	AUT121
		11	
<u>Second Semester</u>			
AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Systems	4	AUT121
AUT126	Automotive HVAC Systems	<u>2</u>	AUT121
		10	
<u>Third Semester</u>			
AUT221	Fuel and Emissions Management Systems	3	AUT125
AUT222	Engine System Performance Diagnosis	3	AUT125
AUT223	Advanced Automotive Electronics	3	AUT125
AUT227	Computerized Vehicle Control	<u>3</u>	AUT125
		12	
<u>Fourth Semester</u>			
AUT225	Automotive Drivetrain I	3	AUT121
AUT226	Automotive Drivetrain II	3	AUT121
AUT233	Automotive Diagnostic Applications	2	AUT223
AUT427	Alternative Fuels and Advance Automotive Technologies	<u>2</u>	AUT223
		10	
TOTAL CREDITS		43	

^To promote student success, this course should be taken in the first semester.



ASSOCIATE OF APPLIED SCIENCE

DESIGN ENGINEERING TECHNOLOGY

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The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DET121	Engineering Drawing	3		
DET124	Working Drawings	3	DET121 and Co-DET125	
MET223	Dynamics	2	MET124	
DET226	Geometric Dimensioning and Tolerancing	2	DET124	
MET226	Technical Project - Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125	
MET225 or AIT122	Manufacturing Processes or Machine Tools	3 or 3		
MET228	Machine Design	4	MET124	
DET126	Customizing AutoCAD	3	DET125	
DET230	Advanced AutoCAD (Inventor)	3	DET125	
DET131	Pro/ENGINEER (Creo Parametric)	3	DET121	
DET132	SolidWorks	3	DET125	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
DET125	Basic AutoCAD	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET123	Material Science	2		
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	<i>Check for prerequisites</i>	
Total		31		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
DET121	Engineering Drawing	3	
ENG124	College Composition^	3	ENG011 or Proficiency
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
DET125	Basic AutoCAD	<u>3</u>	
		18	
<u>Second Semester</u>			
DET230	Advanced AutoCAD (Inventor)	3	DET125
DET124	Working Drawings	3	DET121 and Co-DET125
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)
MET124	Statics & Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
DET126	Customizing AutoCAD	<u>3</u>	DET125
		17	
<u>Third Semester</u>			
DET226	Geometric Dimensioning and Tolerancing	2	DET124
MET123	Material Science	2	
MET225	Manufacturing Processes	3	
or	or	or	
AIT122	Machine Tools	3	
DET131	Pro/ENGINEER (Creo Parametric)	3	DET121
MET223	Dynamics	<u>2</u>	MET124
		12	
<u>Fourth Semester</u>			
MET226	Technical Project - Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125
MET228	Machine Design	4	MET124
ENG221	Technical Report Writing	3	ENG124
<i>Arts & Humanities Elective</i> ¹		3	<i>Check for prerequisites</i>
DET132	SolidWorks	<u>3</u>	DET125
		15	
	TOTAL CREDITS	62	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE MECHANICAL ENGINEERING TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DET121	Engineering Drawing	3		
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MET221	Advanced Strength of Materials	2	MET124	
MET222	Fluid Power	4	MET124	
MET223	Dynamics	2	MET124	
MET225 or AIT122	Manufacturing Processes or Machine Tools	3 or 3		
MET226	Technical Project - Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125	
MET227	Thermodynamics and Heat Transfer	3	PHY121	
MET228	Machine Design	4	MET124	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
DET125 or DET131	Basic AutoCAD or Pro/ENGINEER (Creo Parametric)	3 or 3	DET121	
DET230	Advanced AutoCAD (Inventor)	3	DET125	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
MET123	Material Science	2		
MTH135	Precalculus [^] – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
	<i>Select one (1) Arts & Humanities Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		30		
TOTAL CREDIT HOURS		61		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
DET121	Engineering Drawing	3	
ENG124	College Composition [^]	3	ENG011 or Proficiency
MET123	Material Science	2	
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency
ITD122	Computer Applications for Professionals [^]	<u>3</u>	ITD100 or Proficiency
		17	
<u>Second Semester</u>			
DET125	Basic AutoCAD	3	
or	or	or	
DET131	Pro/ENGINEER (Creo Parametric)	3	DET121
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
MET225	Manufacturing Processes	3	
or	or	or	
AIT122	Machine Tools	3	
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		14	
<u>Third Semester</u>			
DET230	Advanced AutoCAD (Inventor)	3	DET125
MET221	Advanced Strength of Materials	2	MET124
MET222	Fluid Power	4	MET124
MET228	Machine Design	<u>4</u>	MET124
		13	
<u>Fourth Semester</u>			
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094) ⁺ or Proficiency
MET223	Dynamics	2	MET124
MET226	Technical Project - Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125
MET227	Thermodynamics and Heat Transfer	3	PHY121
ENG221	Technical Report Writing	3	ENG124
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		17	
TOTAL CREDITS		61	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

⁺⁺Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

MECHANICAL ENGINEERING TECHNOLOGY – FUEL CELL MAJOR

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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MET124	Statics & Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MET229	Introduction to Alternative and Renewable Energy / Fuel Cells	3		
MET222	Fluid Power	4	MET124	
MET225 or AIT122	Manufacturing Processes or Machine Tools	3 or 3		
MET230	Analysis and Applications of Types of Fuel Cells	3	MET229	
MET231	Fuel Cell Systems	3	MET230	
MET227	Thermodynamics and Heat Transfer	3	PHY121	
MET232	Fuel Cell Project	3	MET231	
DET230	Advanced AutoCAD (Inventor)	3	DET125	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
DET125	Basic AutoCAD	3		
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
CHM141	General Chemistry I (lab) [^]	5	HS CHM or CHM101	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	<i>Check for prerequisites</i>	
Total		30		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of “B” required

⁺⁺Minimum grade of “C” required

[^]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MET229	Introduction to Alternative and Renewable Energy / Fuel Cells	3	
CHM141	General Chemistry I (lab)▲	5	HS CHM or CHM101
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
DET125	Basic AutoCAD	<u>3</u>	
		20	
<u>Second Semester</u>			
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
MET230	Analysis and Applications of Types of Fuel Cells	3	MET229
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		14	
<u>Third Semester</u>			
MET222	Fluid Power	4	MET124
MET231	Fuel Cell Systems	3	MET230
DET230	Advanced AutoCAD (Inventor)	3	DET125
EST230	Electrical Circuits and Devices^	<u>4</u>	(MTH093 and MTH094)+ or Proficiency
		14	
<u>Fourth Semester</u>			
MET227	Thermodynamics and Heat Transfer	3	PHY121
MET232	Fuel Cell Project	3	MET231
ENG221	Technical Report Writing	3	ENG124
MET225	Manufacturing Processes	3	
or	or	or	
AIT122	Machine Tools	3	
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		15	
TOTAL CREDITS		63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ONE-YEAR CERTIFICATE FUEL CELL TECHNOLOGY

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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
MET225	Manufacturing Processes	3		
MET229	Introduction to Alternative and Renewable Energy / Fuel Cells	3		
MET230	Analysis/Applications of Fuel Cells	3	MET229	
MET231	Fuel Cell Systems	3	MET230	
MET232	Fuel Cell Project	3	MET231	
Total		19		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
DET125	Basic AutoCAD	3		
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
Total		12		
TOTAL CREDIT HOURS		31		

[^] Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE FUEL CELL TECHNOLOGY	4052

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisite</u>
SSC101	Student Success Seminar^^	1	Take first semester
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
MET229	Introduction to Alternative and Renewable Energy / Fuel Cells	<u>3</u>	
		9	
<u>Second Semester</u>			
MET230	Analysis/Applications of Fuel Cells	3	MET229
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
DET125	Basic AutoCAD	3	
MET225	Manufacturing Processes	<u>3</u>	
		13	
<u>Third Semester</u>			
MET231	Fuel Cell Systems	3	MET230
MET232	Fuel Cell Project	3	MET231
CSE122	Programming Logic and Problem Solving^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		9	
	TOTAL CREDITS	31	

^ Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required



ONE-YEAR CERTIFICATE SUSTAINABLE/ALTERNATIVE ENERGY TECHNOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AET121	Sustainable/Alternative Energy Sources	3		
AET122	Analysis/Applications of Sustainable Alternative Energy	3	AET121	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
MET225	Manufacturing Processes	3		
AET123	Sustainable/Alternative Energy Systems**	3	AET122	
AET124	Sustainable/Alternative Energy Project**	3	AET123	
EET227	PLCs and Industrial Controls I	3	EST230 or EET120	
EET128	National Electric Code and Electrical System Design	2	EET122	
Total		24		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
DET125	Basic AutoCAD	3		
DET230	Advanced AutoCAD (Inventor)	3	DET125	
Total		11		
TOTAL CREDIT HOURS		35		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

⁺⁺Minimum grade of "C" required

^{**}Eight week courses

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH125	College Algebra^	4	(MTH093 and MTH094)++
AET121	Sustainable/Alternative Energy Sources	<u>3</u>	or Proficiency
		8	
<u>Second Semester</u>			
AET122	Analysis/Apps of Sustainable Alternative Energy	3	AET121
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+
MET225	Manufacturing Processes	3	or Proficiency
DET125	Basic AutoCAD	<u>3</u>	
		13	
<u>Third Semester</u>			
AET123	Sustainable/Alternative Energy Systems**	3	AET122
AET124	Sustainable/Alternative Energy Project**	3	AET123
EET227	PLCs and Industrial Controls I	3	EST230 or EET120
EET128	National Electric Code and Electrical System Design	2	EET122
DET230	Advanced AutoCAD (Inventor)	<u>3</u>	DET 125
		14	
	TOTAL CREDITS	35	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

**Eight week courses



ASSOCIATE OF SCIENCE PRE-ENGINEERING – MECHANICAL ENGINEERING

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4054

Engineering Technologies/Information Technologies Division

Engineering Technology Department

ARTICULATING TO A BS IN MECHANICAL ENGINEERING WITH THE UNIVERSITY OF AKRON

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION:				
ENG124	College Composition^	3	ENG011 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES:				
BUS221	Microeconomics^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity	3		
ARTS & HUMANITIES:				
HIS122	U.S. History II from 1877	3		
PHL122	Ethics	3		
SCIENCES & MATHEMATICS:				
CHM141	General Chemistry I (lab)▲	5	HS CHM 2 or CHM101	
CHM142	General Chemistry II (lab)	5	CHM141	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
MTH223	Analytical Geometry and Calculus I^*	4	MTH135	
MTH224	Analytical Geometry and Calculus II	4	MTH223	
CONCENTRATION CORE:				
MTH225	Analytical Geometry and Calculus III	4	MTH224	
PHY221	General Physics I w/Calculus (lab)	5	MTH223 and MTH224	
CST121	Modeling and Simulation	3	MTH221 or MTH223	
DET125	Basic AutoCAD	3		
MET123	Material Science	2		
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MET221	Advanced Strength of Materials	2	MET124	
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

++ Minimum grade of "C" required

*Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.

1516 Catalog Effective Summer 2015	PRE-ENGINEERING – MECHANICAL ENGINEERING	4054

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Bridge courses that can be taken at Stark State College, prior to attending the University of Akron, that apply towards the University of Akron BS Degree: COM121, ENG221, PHY222, and MTH227. If you plan on taking additional courses at Stark State College beyond this list, we recommend you verify transferability with a University of Akron advisor prior to taking the course. Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer. Contact the University of Akron's Transfer Student Services Center (330-972-7009) during the first semester to discuss junior year Stark State College Associate of Science pre-engineering transition strategies to the University of Akron's Engineering BS programs.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
CHM141	General Chemistry I (w/lab) [▲]	5	HS CHM 2 or CHM101
ENG124	College Composition [^]	3	ENG011 or Proficiency
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	(MTH093 and MTH094) ⁺⁺
		14	or Proficiency
<u>Second Semester</u>			
PHL122	Ethics	3	
SOC225	Cultural Diversity	3	
MTH223	Analytical Geometry and Calculus I ^{▲*}	4	MTH135
CHM142	General Chemistry II (w/lab)	<u>5</u>	CHM141
		15	
<u>Summer Semester</u>			
MTH224	Analytical Geometry and Calculus II	4	MTH223
<u>Third Semester</u>			
PHY221	General Physics I w/Calculus (lab)	5	MTH223 and MTH224
MTH225	Analytical Geometry and Calculus III	4	MTH224
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
BUS221	Microeconomics [^]	<u>3</u>	IDS102 or Proficiency
		16	
<u>Fourth Semester</u>			
CST121	Modeling and Simulation	3	MTH221 or MTH223
MET221	Advanced Strength of Materials	2	MET124
MET123	Material Science	2	
HIS122	US History II from 1877	3	
DET125	Basic AutoCAD	<u>3</u>	
		13	
	TOTAL CREDITS	62	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

[▲]Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

⁺⁺ Minimum grade of "C" required

*Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.



ASSOCIATE OF APPLIED SCIENCE ELECTRICAL ENGINEERING TECHNOLOGY

1516 Catalog
Effective Summer 2015

4100

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
EET125	Circuit Manufacturing Techniques	1	EET120	
EET126	Electrical Machines	4	Pre- or Co-EET122	
EET128	NEC and Electrical Systems Design	2	EET122	
EET226	Transmission and Distribution	3	EET122	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
EET232	Industrial Electronics	4	EET123	
EET233	Technical Project – Electrical	1	EET123 and EET227	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE229	Visual Basic Development	3	CSE122	
DET125	Basic AutoCAD	3		
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	Check for prerequisites	
Total		30		
TOTAL CREDIT HOURS		63		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of “C” required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135
ENG124	College Composition^	3	ENG011 or Proficiency
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	(MTH093 and MTH094)++ or Proficiency
		16	
<u>Second Semester</u>			
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
EET126	Electrical Machines	4	Pre- or Co-EET122
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		16	
<u>Third Semester</u>			
DET125	Basic AutoCAD	3	
EET128	NEC and Electrical Systems Design	2	EET122
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
ENG221	Technical Report Writing	3	ENG124
CSE229	Visual Basic Development	<u>3</u>	CSE122
		14	
<u>Fourth Semester</u>			
EET226	Transmission and Distribution	3	EET122
EET228	PLCs and Industrial Controls II	3	EET227
EET232	Industrial Electronics	4	EET123
EET233	Technical Project – Electrical	1	EET123 and EET227
<i>Arts & Humanities Elective¹</i>		3	<i>Check for prerequisites</i>
EET263	Industrial Sensors & Adv. Applications	2	EET120 or EST230
EET125	Circuit Manufacturing Techniques	<u>1</u>	EET120
		17	
TOTAL CREDITS		63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

ELECTRICAL ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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4101

Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
EET126	Electrical Machines	4	Pre- or Co-EET122	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MET222	Fluid Power	4	MET124	
MET226	Technical Project – Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125	
MET227	Thermodynamics and Heat Transfer	3	PHY121	
MET123	Material Science	2		
Total		34		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
DET125	Basic AutoCAD	3		
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230	
MET225	Manufacturing Processes	3		
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	Select one (1) Arts & Humanities Elective from list below ¹	3	Check for pre-requisites	
Total		30		
TOTAL CREDIT HOURS		64		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

1516 Catalog Effective Summer 2015	ELECTRICAL ENGINEERING TECHNOLOGY – ELECTRO-MECHANICAL MAJOR	4101

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135
ENG124	College Composition^	3	ENG011 or Proficiency
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	(MTH093 and MTH094)++ or Proficiency
		16	
<u>Second Semester</u>			
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
EET126	Electrical Machines	4	Pre- or Co-EET122
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		16	
<u>Third Semester</u>			
MET227	Thermodynamics and Heat Transfer	3	PHY121
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
MET123	Material Science	2	
ENG221	Technical Report Writing	3	ENG124
DET125	Basic AutoCAD	<u>3</u>	
		18	
<u>Fourth Semester</u>			
MET222	Fluid Power	4	MET124
MET226	Technical Project – Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125
MET225	Manufacturing Processes	3	
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		14	
TOTAL CREDITS		64	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of “C” required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF SCIENCE PRE-ENGINEERING – ELECTRICAL ENGINEERING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

4102

Engineering Technologies/Information Technologies Division

Engineering Technology Department

ARTICULATING TO A BS IN ELECTRICAL ENGINEERING WITH THE UNIVERSITY OF AKRON

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION:				
ENG124	College Composition^	3	ENG011 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES:				
BUS221	Microeconomics^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity	3		
ARTS & HUMANITIES:				
HIS122	U.S. History II from 1877	3		
PHL122	Ethics	3		
SCIENCES & MATHEMATICS:				
CHM141	General Chemistry I (lab)▲	5	HS CHM 2 or CHM101	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
MTH223	Analytical Geometry and Calculus I^*	4	MTH135	
MTH224	Analytical Geometry and Calculus II	4	MTH223	
MTH227	Ordinary Differential Equations	3	MTH224	
CONCENTRATION CORE:				
MTH225	Analytical Geometry and Calculus III	4	MTH224	
PHY221	General Physics I w/Calculus (lab)	5	MTH223 and MTH224	
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CST121	Modeling and Simulation	3	MTH221 or MTH223	
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
TOTAL CREDIT HOURS		64		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

++ Minimum grade of "C" required

*Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.

1516 Catalog Effective Summer 2015	PRE-ENGINEERING – ELECTRICAL ENGINEERING	4102

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Bridge courses that can be taken at Stark State College, prior to attending the University of Akron, that apply towards the University of Akron BS Degree: COM121, ENG221, PHY222, MTH227 and CSE233. If you plan on taking additional courses at Stark State College beyond this list, we recommend you verify transferability with a University of Akron advisor prior to taking the course. Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer. Contact the University of Akron's Transfer Student Services Center (330-972-7009) during the first semester to discuss junior year Stark State College Associate of Science pre-engineering transition strategies to the University of Akron's Engineering BS programs.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CHM141	General Chemistry I (w/lab)^	5	HS CHM 2 or CHM101
ENG124	College Composition^	3	ENG011 or Proficiency
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
EET120	DC Circuit Analysis	<u>4</u>	Pre- or Co-MTH125
		18	or Pre- or Co-MTH135
<u>Second Semester</u>			
SOC225	Cultural Diversity	3	
MTH223	Analytical Geometry and Calculus I^*	4	MTH135
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
PHL122	Ethics	<u>3</u>	
		14	
<u>Summer Semester</u>			
MTH224	Analytical Geometry and Calculus II	4	MTH223
<u>Third Semester</u>			
PHY221	General Physics I w/Calculus (lab)	5	MTH223 and MTH224
MTH225	Analytical Geometry and Calculus III	4	MTH224
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
		13	
<u>Fourth Semester</u>			
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
MTH227	Ordinary Differential Equations	3	MTH224
BUS221	Microeconomics^	3	IDS102 or Proficiency
CST121	Modeling and Simulation	3	MTH221 or MTH223
HIS122	US History II from 1877	<u>3</u>	
		15	
	TOTAL CREDITS	64	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

^ Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

++ Minimum grade of "C" required

*Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.



ASSOCIATE OF APPLIED SCIENCE

ELECTRONIC ENGINEERING TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

4150

Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
EET125	Circuit Manufacturing Techniques	1	EET120	
EET225	Digital Communication and Systems Analysis	3	EET248 and EET262	
EET230	Electronic Circuits I	4	EET123	
EET232	Industrial Electronics	4	EET123	
EET235	Technical Project - Electronic	1	EET125 and EET230 and EET248	
EET248	Workstation Interfacing	4	CSE229 and Co-EET262	
EET262	Pulse and Digital Integrated Circuits	4	CSE229 or CSE233	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE229	Visual Basic Development	3	CSE122	
DET125	Basic AutoCAD	3		
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	Check for prerequisites	
Total		30		
TOTAL CREDIT HOURS		63		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135
ENG124	College Composition [^]	3	ENG011 or Proficiency
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency
DET125	Basic AutoCAD	<u>3</u>	
		19	
<u>Second Semester</u>			
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
EET125	Circuit Manufacturing Techniques	1	EET120
CSE229	Visual Basic Development	3	CSE122
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		16	
<u>Third Semester</u>			
EET262	Pulse and Digital Integrated Circuits	4	CSE229 or CSE233
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230
EET248	Workstation Interfacing	4	CSE229 and Co-EET262
EET230	Electronic Circuits I	<u>4</u>	EET123
		14	
<u>Fourth Semester</u>			
ENG221	Technical Report Writing	3	ENG124
EET225	Digital Communication and Systems Analysis	3	EET248 and EET262
EET232	Industrial Electronics	4	EET123
EET235	Technical Project - Electronic	1	EET125 and EET230 and EET248
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		14	
TOTAL CREDITS		63	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

CIVIL ENGINEERING TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	
CET122	Architectural Drafting I	3		
CET125	Soil Mechanics	3	(MTH125 or MTH135) and MET124	
CET222	Concrete and Asphalt Testing	3	(MTH125 or MTH135) and CET121	
CET223	Structural Design I	3	MET124	
CET226	Estimating	3	(MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237)	
CET227	Surveying I	3	MTH125 or MTH135	
CET228	Surveying II	3	CET227	
CET232	Land Planning and Design	3	CET227 and (CET122 or CET124 or DET125)	
CET234	Architectural CAD (REVIT 3D – BIM)	3	CET121 and CET122 and DET125	
CET236	Global Positioning Systems	3	CET227	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CET121	Building Materials and Construction Methods	3		
DET125	Basic AutoCAD	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
	Select one (1) Arts & Humanities Elective from list below. ¹	3	<i>Check for prerequisites</i>	
Total		32		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
CET121	Building Materials and Construction Methods	3	
CET122	Architectural Drafting I	3	
MTH135	Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	(MTH093 and MTH094)++ or Proficiency
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		18	
<u>Second Semester</u>			
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre or Co PHY221
DET125	Basic AutoCAD	3	
CET227	Surveying I	3	MTH125 or MTH135
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		14	
<u>Third Semester</u>			
CET125	Soil Mechanics	3	(MTH125 or MTH135) and MET124
ENG221	Technical Report Writing	3	ENG124
CET223	Structural Design I	3	MET124
CET222	Concrete and Asphalt Testing	3	(MTH125 or MTH135) and CET121
CET232	Land Planning and Design	<u>3</u>	CET227 and (CET122 or CET124 or DET125)
		15	
<u>Fourth Semester</u>			
CET226	Estimating	3	(MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237)
CET236	Global Positioning Systems	3	CET227
CET228	Surveying II	3	CET227
CET234	Architectural CAD (REVIT 3D – BIM)	3	CET121 and CET122 and DET125
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		15	
	TOTAL CREDITS	62	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

CIVIL ENGINEERING TECHNOLOGY – ARCHITECTURAL MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET122	Architectural Drafting I	3		
CET123	Architectural Drafting II	3	CET121 and CET122	
CET223	Structural Design I	3	MET124	
CET225	Sustainable Building Service Systems	3	CET121	
CET226	Estimating	3	(MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237)	
CET227	Surveying I	3	MTH125 or MTH135	
CET232	Land Planning and Design	3	CET227 and (CET122 or CET124 or DET125)	
CET233	Architectural Design	3	CET122 and CET123	
CET234	Architectural CAD (REVIT 3D – BIM)	3	CET121 and CET122 and DET125	
CET235	Construction Management, Job Cost and Safety	3	CET121 and ITD122	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
CET121	Building Materials and Construction Methods	3		
DET125	Basic AutoCAD	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ENG124	College Composition^	3	ENG011 or Proficiency
CET121	Building Materials and Construction Methods	3	
CET122	Architectural Drafting I	3	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
		18	
<u>Second Semester</u>			
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
CET123	Architectural Drafting II	3	CET121 and CET122
CET227	Surveying I	3	MTH125 or MTH135
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)
		14	
<u>Third Semester</u>			
ENG221	Technical Report Writing	3	ENG124
DET125	Basic AutoCAD	3	
CET223	Structural Design I	3	MET124
CET232	Land Planning and Design	3	CET227 and (CET122 or CET124 or DET125)
CET235	Construction Management, Job Cost and Safety	3	CET121 and ITD122
		15	
<u>Fourth Semester</u>			
CET226	Estimating	3	(MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237)
CET225	Sustainable Building Service Systems	3	CET121
CET233	Architectural Design	3	CET121 and CET123
CET234	Architectural CAD (REVIT 3D – BIM)	3	CET121 and CET122 and DET125
Arts & Humanities Elective ¹		3	Check for prerequisites
		15	
TOTAL CREDITS		62	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of “C” required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

CIVIL ENGINEERING TECHNOLOGY – CONSTRUCTION MANAGEMENT MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Engineering Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET125 or CET222	Soil Mechanics or Concrete and Asphalt Testing	3 or 3	(MTH125 or MTH135) and MET124 (MTH125 or MTH135) and CET121	
CET223	Structural Design I	3	MET124	
CET225	Sustainable Building Service Systems	3	CET121 and MTH135	
CET226	Estimating	3	(MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237)	
CET227	Surveying I	3	MTH125 or MTH135	
CET232	Land Planning and Design	3	CET227 and (CET122 or CET124 or DET125)	
CET235	Construction Management, Job Cost and Safety	3	CET121 and ITD122	
CET236	Global Positioning System	3	CET227	
CET237	Interpreting Construction Documents	3		
CET239	Building Code Applications	3	CET121 and (CET237 or CET122)	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
CET121	Building Materials and Construction Methods	3		
DET125	Basic AutoCAD	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		62		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
CET121	Building Materials and Construction Methods	3	
CET237	Interpreting Construction Documents	3	
DET125	Basic AutoCAD	3	
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		18	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221
CET227	Surveying I	3	MTH125 or MTH135
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		14	
<u>Third Semester</u>			
CET125	Soil Mechanics	3	(MTH125 or MTH135) and MET124
or	or	or	
CET222	Concrete and Asphalt Testing	3	(MTH125 or MTH135) and CET121
Arts & Humanities Elective ¹		3	<i>Check for prerequisites</i>
CET223	Structural Design I	3	MET124
CET232	Land Planning and Design	3	CET227 and (CET122 or CET124 or DET125)
CET235	Construction Management, Job Cost and Safety	<u>3</u>	CET121 and ITD122
		15	
<u>Fourth Semester</u>			
ENG221	Technical Report Writing	3	ENG124
CET225	Sustainable Building Service Systems	3	CET121 and MTH135
CET239	Building Code Applications	3	CET121 or CET237 or CET122
CET226	Estimating	3	(MTH125 or MTH135) and CET121 and ITD122 and (CET122 or DET125 or CET237)
CET236	Global Positioning System	<u>3</u>	CET227
		15	
	TOTAL CREDITS	62	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF SCIENCE

PRE-ENGINEERING – CIVIL ENGINEERING

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Engineering Technologies/Information Technologies Division

Engineering Technology Department

ARTICULATING TO A BS IN CIVIL ENGINEERING WITH THE UNIVERSITY OF AKRON

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION:				
ENG124	College Composition^	3	ENG011 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES:				
BUS221	Microeconomics^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity	3		
ARTS & HUMANITIES:				
HIS122	U.S. History II from 1877	3		
PHL122	Ethics	3		
SCIENCES & MATHEMATICS:				
CHM141	General Chemistry I (lab)▲	5	HS CHM 2 or CHM101	
CHM142	General Chemistry II (lab)	5	CHM141	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
MTH223	Analytical Geometry and Calculus I^*	4	MTH135	
MTH224	Analytical Geometry and Calculus II	4	MTH223	
CONCENTRATION CORE:				
MTH225	Analytical Geometry and Calculus III	4	MTH224	
PHY221	General Physics I w/Calculus (lab)	5	MTH223 and MTH224	
MTH227	Ordinary Differential Equations	3	MTH224	
CST121	Modeling and Simulation	3	MTH221 or MTH223	
DET125	Basic AutoCAD	3		
MET124	Statics and Strength of Materials	4	Pre- or Co-PHY121 or Pre- or Co-PHY221	
MET221	Advanced Strength of Materials	2	MET124	
	TOTAL CREDIT HOURS	63		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

++ Minimum grade of "C" required

*Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.



ASSOCIATE OF APPLIED SCIENCE

APPLIED INDUSTRIAL TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST134	Hydraulic & Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
IET270	Dimensional Metrology & Inspection I [^]	3	(MTH093 and MTH094)++ or Proficiency	
AIT139	Introduction to Robotics	2		
MET123	Material Science	2		
MET225	Manufacturing Processes	3		
TECHNICAL ELECTIVES: 7 credit hours minimum (typically 2 to 3 classes)				
	<i>See Technical Elective list below.²</i>	7	<i>Check for prerequisites</i>	
	Total	32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics [^]	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
MTH107	Industrial Math [^]	3	(MTH091 and MTH092)+ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM123	Small Group Communication	3	ENG124	
IET121	Industrial Management Concepts	2		
AET121	Sustainable/Alternative Energy Sources	3		
	<i>Select two (2) courses of Arts & Humanities and/or Social & Behavioral Sciences Electives from the list below.¹</i>	6	<i>Check for prerequisites</i>	
	Total	31		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

¹ Arts & Humanities and/or Social & Behavioral Sciences Electives: any course with the following catalog entry: ENG 233, 234, 236, 237, HIS121, HIS122, PHL122, SOC, PSY

² Technical Electives (more details on next page): AIT122, AIT123, IET223, AIT221, AIT124, AIT125, AIT126, AIT220, DET125, MST136, MST137, MST138, MST139, MST124, MST135, MST125, MST126, MST127, MST128, MST131, MST133, MST225, AIT137, AIT225, AIT130, AIT134, AIT222, HVC124, AET122, AET123, AET124, AIT131, AIT133, EST133, EST134, CDL121##, CDL122, CDL123

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TECHNICAL ELECTIVES: <i>7 credit hours minimum from the list below.</i>				
Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT122	Machine Tools	3		
AIT123	Advanced Machine Tools	4		
IET223	CNC	4		
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
AIT124	Principles of Rigging	2		
AIT125	Commercial Plumbing	3		
AIT126	Industrial Electrical Applications and Safety	2		
AIT220	Industrial Robotics	4	AIT139	
DET125	Basic AutoCAD	3		
MST136	3G Cert. Preparatory	2	MST127 and MST128	
MST137	6G Cert. Preparatory	5	MST127 and MST128	
MST138	Preparatory Gas Tungsten Arc Welding	5	MST127 and MST128	
MST139	Gas Tungsten Arc Welding Titanium/Stainless Steel	3	MST138	
CDL121	CDL Class A – Safe Operation and Control ##	5	Co-CDL122 and Co-CDL123	
CDL122	CDL Class A – Advanced Operations and Maintenance	6	Co-CLD121 and Co-CDL123	
CDL123	CDL Class A – Behind the Wheel Street	2	Co-CDL121 and Co-CDL122	
AIT133	Advanced Electrical Apps and Safety	2	AIT131	
MST126	Pipefitting Principles & Applications	3		
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Lab	3	Co-MST127	
MST131	Statistical Process Control Charts [^]	2	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MST133	Press Working Fundamentals	2		
MST225	DC Crane Control	1		
AIT137	CAD/CAM	4	AIT122 and IET223	
AIT225	Advanced CAD/CAM	4	AIT137	
AIT130	Structural/Maintenance Welding	3		
AIT134	Predictive & Preventative Maintenance I	3	MST221 and MST125	
AIT222	Predictive & Preventative Maintenance II	3	AIT134	
HVC124	Mobile Cab Climate Control	2		
AET122	Analysis/Appl of Sustain Alternative Energy	3	AET121	
AET123	Sustainable/Alternative Energy Systems	3	AET122	
AET124	Sustainable/Alternative Energy Project	3	AET123	
AIT131	Electrical Applications and Safety	2		
MST124	Furnace Combust Principles	1		
MST135	Plumb & Pipe Code Principles	3		
MST125	Basic Pumps	3		
EST133	Digital Logic Fundamentals	4	EST132	
EST134	Programmable Controller Fundamentals	4	EST133	

[^]Based on SSC placement scores

##Participation in CDL121 requires a valid Ohio Driver's License with 2 years driving experience. Must be 18 years of age and show proof of citizenship. Must meet Department of Transportation (DOT) vision and physical requirements and pass the DOT drug screen

++Minimum grade of "C" required

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
MST121	Blueprint Reading	2	
MTH107	Industrial Math^	3	(MTH091 and MTH092)+ or Proficiency
IET270	Dimensional Metrology & Inspection I^	3	(MTH093 and MTH094)++ or Proficiency
		15	
<u>Second Semester</u>			
MST134	Hydraulic & Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
IET121	Industrial Management Concepts	2	
MET123	Material Science	2	
Arts & Humanities and/or Social & Behavioral Sciences Elective ¹		6	Check for prerequisites
		20	
<u>Third Semester</u>			
ENG221	Technical Report Writing	3	ENG124
PHY101	Principles of Physics^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
COM123	Small Group Communication	3	ENG124
AIT139	Introduction to Robotics	2	
MET225	Manufacturing Processes	3	
		15	
<u>Fourth Semester</u>			
MST221	Mechanical Drive Components	3	
Technical Electives ² ##		7	Check for prerequisites
AET121	Sustainable/Alternative Energy Sources	3	
		13	
TOTAL CREDITS		63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

##Participation in CDL121 requires a valid Ohio Driver's License with 2 years driving experience. Must be 18 years of age and show proof of citizenship. Must meet Department of Transportation (DOT) vision and physical requirements and pass the DOT drug screen.

¹Arts & Humanities and/or Social & Behavioral Sciences Electives: any course with the following catalog entry: ENG 233, 234, 236, 237, HIS121, HIS122, PHL122, SOC, PSY

²Technical Electives: AIT122, AIT123, IET223, AIT221, AIT124, AIT125, AIT126, AIT220, DET125, MST136, MST137, MST138, MST139, MST124, MST135, MST125, MST126, MST127, MST128, MST131, MST133, MST225, AIT137, AIT225, AIT130, AIT134, AIT222, HVC124, AET122, AET123, AET124, AIT131, AIT133, EST133, EST134, CDL121##, CDL122, CDL123



ONE-YEAR CERTIFICATE CNC TECHNICAL

1516 Catalog
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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre-and Co-Requisites	Completed Sem./Year
AIT122	Machine Tools	3		
AIT123	Advanced Machine Tools	4	AIT122	
IET223	CNC Programming	4		
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
DET121 or MST121	Engineering Drawing or Blueprint Reading	3 or 2		
DET125	Basic AutoCAD	3		
IET270	Dimensional Metrology & Inspection I ^	3	(MTH093 and MTH094)++ or Proficiency	
AIT137	CAD/CAM	4	AIT122 and IET223	
Total		26-27		
NON-TECH Course Number	Course Title	Credits	Pre-and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MET123	Material Science	2		
MTH107	Industrial Math^ Ω	3	(MTH091 and MTH092)+ or Proficiency	
Total		9		
TOTAL CREDIT HOURS		35-36		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

Ω MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH107	Industrial Math^ Ω	3	(MTH091 and MTH092)+ or Proficiency
AIT122	Machine Tools	3	
IET270	Dimensional Metrology & Inspection I^	3	(MTH093 and MTH094)++ or Proficiency
DET121	Engineering Drawing	3	
or	or	or	
MST121	Blueprint Reading	<u>2</u>	
		12-13	
<u>Second Semester</u>			
DET125	Basic AutoCAD	3	
AIT123	Advanced Machine Tools	4	AIT122
IET223	CNC Programming	4	
MET123	Material Science	<u>2</u>	
		14	
<u>Summer Semester</u>			
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122
AIT137	CAD/CAM	4	AIT122 and IET223
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		9	
TOTAL CREDITS		35-36	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

Ω MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.



ONE-YEAR CERTIFICATE WELDING TECHNOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Lab	3	Co-MST127	
MST136	3G Welding Certification Exam Preparatory	2	MST127 and MST128	
MST137	6G Welding Certification Exam Preparatory	5	MST127 and MST128	
MST138	Preparatory Gas Tungsten Arc Welding	5	MST127 and MST128	
MST139	Gas Tungsten Arc Welding-Titanium/Stainless Steel	3	MST138	
Total		23		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
MTH107	Industrial Math^ Ω	3	(MTH091 and MTH092)+ or Proficiency	
AIT122	Machine Tools	3		
MET123	Material Science	2		
Total		9		
TOTAL CREDIT HOURS		32		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

Ω MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST121	Blueprint Reading	2	
MTH107	Industrial Math^ Ω	3	(MTH091 and MTH092)+ or Proficiency
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Lab	3	Co-MST127
AIT122	Machine Tools	<u>3</u>	
		15	
<u>Second Semester</u>			
MST136	3G Welding Certification Preparatory	2	MST127 and MST128
MST137	6G Welding Certification Preparatory	5	MST127 and MST128
MST138	Preparatory Gas Tungsten Arc Welding	<u>5</u>	MST127 and MST128
		12	
<u>Third Semester</u>			
MET123	Material Science	2	
MST139	Gas Tungsten Arc Welding-Titanium/Stainless Steel	<u>3</u>	MST138
		5	
TOTAL CREDITS		32	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

Ω MTH125 College Algebra should only be taken by students planning to transfer to a four-year institution.

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Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT130	Structural Maintenance Welding	3		
AIT134	Predictive Maintenance Technologies I	3	MST221 and MST125	
MST126	Pipefitting Principles and Applications	3		
MST134	Hydraulic & Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
PET101	Introduction to the Petroleum Industry	3		
	Total	21		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MST125	Basic Pumps	3		
AIT124	Principles of Rigging	2		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
MST121	Blueprint Reading	2		
	Total	12		
	TOTAL CREDIT HOURS	33		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-Requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
PET101	Introduction to the Petroleum Industry	3	
MST125	Basic Pumps	3	
MST134	Hydraulic & Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
MST121	Blueprint Reading	2	
AIT124	Principles of Rigging	<u>2</u>	
		17	
<u>Second Semester</u>			
MST126	Pipefitting Principles and Applications	3	
MST221	Mechanical Drive Components	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
AIT134	Predictive Maintenance Technologies I	3	MST221 and MST125
AIT130	Structural Maintenance Welding	<u>3</u>	
		16	
	TOTAL CREDITS	33	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required



ONE-YEAR CERTIFICATE

INDUSTRIAL PROCESS OPERATION TECHNOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST134	Hydraulic & Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
ARL234	Gas Compression and Flow Dynamics	3		
ARL239	Large Line Unit Compressor Assembly	3		
PET101	Introduction to the Petroleum Industry	3		
	Total	27		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
MST121	Blueprint Reading	2		
MET123	Material Science	2		
	Total	5		
	TOTAL CREDIT HOURS	32		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST121	Blueprint Reading	2	
MST134	Hydraulic & Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	<u>4</u>	(MTH093 and MTH094)+ or Proficiency
		16	
<u>Second Semester</u>			
MET123	Material Science	2	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
ARL234	Gas Compression and Flow Dynamics	3	
ARL239	Large Line Unit Compressor Assembly	3	
MST221	Mechanical Drive Components	3	
EET263	Industrial Sensors/Advanced Applications	<u>2</u>	EET120 or EST230
		16	
TOTAL CREDITS		32	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.



ASSOCIATE OF APPLIED SCIENCE INDUSTRIAL PROCESS OPERATION TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST134	Hydraulic & Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
ARL234	Gas Compression and Flow Dynamics	3		
ARL239	Large Line Unit Compressor Assembly	3		
PET101	Introduction to the Petroleum Industry	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics [^] (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
CHM101	Introduction to Chemistry ^{^▲}	4	(MTH093 and MTH094)++ or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM123	Small Group Communication	3	ENG124	
MET123	Material Science	2		
MST121	Blueprint Reading	2		
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		62		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

[▲]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST121	Blueprint Reading	2	
MST134	Hydraulic & Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
		16	
<u>Second Semester</u>			
MET123	Material Science	2	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
ARL234	Gas Compression and Flow Dynamics	3	
ARL239	Large Line Unit Compressor Assembly	3	
MST221	Mechanical Drive Components	3	
		14	
<u>Third Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
EET228	PLCs and Industrial Controls II	3	EET227
		17	
<u>Fourth Semester</u>			
PHY101	Principles of Physics^ (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
ENG221	Technical Report Writing	3	ENG124
COM123	Small Group Communication	3	ENG124
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230
Arts & Humanities Elective ¹		3	<i>Check for prerequisites</i>
		15	
TOTAL CREDITS		62	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

PETROLEUM INDUSTRIAL MECHANICS TECHNOLOGY

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Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST126	Pipefitting Principles and Applications	3		
MST134	Hydraulic & Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
MST121	Blueprint Reading	2		
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
AIT134	Predictive Maintenance Technologies I	3	MST221 and MST125	
AIT222	Predictive Maintenance Technologies II	3	AIT134	
AIT130	Structural Maintenance Welding	3		
PET101	Introduction to the Petroleum Industry	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
PHY101	Principles of Physics [^] (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
ENV221	OSHA 40-Hour HAZWOPER	2		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM123	Small Group Communication	3	ENG124	
MST125	Basic Pumps	3		
AIT124	Principles of Rigging	2		
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		31		
TOTAL CREDIT HOURS		61		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST125	Basic Pumps	3	
PET101	Introduction to the Petroleum Industry	3	
MST134	Hydraulic & Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
MST221	Mechanical Drive Components	<u>3</u>	
		16	
<u>Second Semester</u>			
MST126	Pipefitting Principles and Applications	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
AIT134	Predictive Maintenance Technologies I	3	MST221 and MST125
MST121	Blueprint Reading	2	
AIT130	Structural Maintenance Welding	<u>3</u>	
		15	
<u>Third Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
AIT222	Predictive Maintenance Technologies II	3	AIT134
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
ENV221	OSHA 40-Hour HAZWOPER	2	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
AIT124	Principles of Rigging	<u>2</u>	
		17	
<u>Fourth Semester</u>			
PHY101	Principles of Physics^ (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
ENG221	Technical Report Writing	3	ENG124
COM123	Small Group Communication	3	ENG124
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		13	
TOTAL CREDITS		61	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ONE-YEAR CERTIFICATE

SHALENET PIPELINE TECHNICIAN

The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
ARL234	Gas Compression and Flow Dynamics	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
PET101	Introduction to the Petroleum Industry	3		
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2		
PET131	Corrosion Basics	3		
PET132	Petroleum Instrumentation	3		
PET135	Basic Pipeline Operations	3		
MST125	Basic Pumps	3		
	Total	27		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	Take first semester	
COM122	Interpersonal Communication	3		
ENV121	Regulations and Compliance	3		
	Total	7		
	TOTAL CREDIT HOURS	34		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ENV121	Regulations and Compliance	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2	
COM122	Interpersonal Communication	<u>3</u>	
		19	
<u>Second Semester</u>			
PET131	Corrosion Basics	3	
PET132	Petroleum Instrumentation	3	
ARL234	Gas Compression and Flow Dynamics	3	
PET135	Basic Pipeline Operations	3	
MST125	Basic Pumps	<u>3</u>	
		15	
	TOTAL CREDITS	34	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required



ASSOCIATE OF APPLIED SCIENCE

PETROLEUM TECHNOLOGY – PIPELINE TECHNICIAN MAJOR

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Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
ARL234	Gas Compression and Flow Dynamics	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
PET101	Introduction to the Petroleum Industry	3		
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2		
PET131	Corrosion Basics	3		
PET132	Petroleum Instrumentation	3		
PET135	Basic Pipeline Operations	3		
MST125	Basic Pumps	3		
ETD224	Engineering Co-Op	4		
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM122	Interpersonal Communication	3		
ENV121	Regulations and Compliance	3		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics [^] (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
CHM101	Introduction to Chemistry [^] [▲]	4	(MTH093 and MTH094)++ or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
GEO141	Physical Geology (lab)	4		
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
Total		32		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

⁺⁺Minimum grade of "C" required

[▲] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

1516 Catalog Effective Summer 2015	PETROLEUM TECHNOLOGY – PIPELINE TECHNICIAN MAJOR	4315

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ENV121	Regulations and Compliance	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2	
COM122	Interpersonal Communication	<u>3</u>	
		19	
<u>Second Semester</u>			
PET131	Corrosion Basics	3	
PET132	Petroleum Instrumentation	3	
ARL234	Gas Compression and Flow Dynamics	3	
PET135	Basic Pipeline Operations	3	
MST125	Basic Pumps	<u>3</u>	
		15	
<u>Summer</u>			
ETD224	Engineering Co-Op	<u>4</u>	
		4	
<u>Third Semester</u>			
GEO141	Physical Geology (lab)	4	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
CHM101	Introduction to Chemistry^▲	<u>4</u>	(MTH093 and MTH094)++ or Proficiency
		15	
<u>Fourth Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
PHY101	Principles of Physics^ (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		10	
	TOTAL CREDITS	63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

PETROLEUM TECHNOLOGY – PRODUCTION TECHNICIAN MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

4323

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
PET101	Introduction to the Petroleum Industry	3		
MET123	Material Science	2		
PET131	Corrosion Basics	3		
PET132	Petroleum Instrumentation	3		
PET141	Oil and Gas Lease Operation	3		
PET142	Artificial Lift	3		
MST125	Basic Pumps	3		
ENV121	Regulations and Compliance	3		
AIT124	Principles of Rigging	2		
	TOTAL	32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM122	Interpersonal Communication	3		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
ETD224	Engineering CO-OP	4		
CHM101	Introduction to Chemistry ^{^▲}	4	(MTH093 and MTH094)++ or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
GEO141	Physical Geology	4		
ENV221	OSHA 40-Hour HAZWOPER	2		
	<i>Select one (1) Arts & Humanities Elective from the list below ¹</i>	3	<i>Check for prerequisites</i>	
	TOTAL	31		
	TOTAL CREDIT HOURS	63		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

⁺⁺Minimum grade of "C" required

[▲] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

1516 Catalog Effective Summer 2015	PETROLEUM TECHNOLOGY – PRODUCTION TECHNICIAN MAJOR	4323

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ENV121	Regulations and Compliance	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
MET123	Material Science	<u>2</u>	
		16	
<u>Second Semester</u>			
PET131	Corrosion Basics	3	
PET132	Petroleum Instrumentation	3	
PET141	Oil & Gas Lease Operation	3	
PET142	Artificial Lift	3	
COM122	Interpersonal Communication	<u>3</u>	
		15	
<u>Summer</u>			
ETD224	Engineering CO-OP	<u>4</u>	
		4	
<u>Third Semester</u>			
GEO141	Physical Geology	4	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		15	
<u>Fourth Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENV221	OSHA 40-Hour HAZWOPER	2	
MST125	Basic Pumps	3	
AIT124	Principles of Rigging	2	
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		13	
	TOTAL CREDITS	63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ONE-YEAR CERTIFICATE

PETROLEUM INSTRUMENTATION AND ELECTRONICS TECHNICIAN

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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4325

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
PET101	Introduction to the Petroleum Industry	3		
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2		
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230	
PET132	Petroleum Instrumentation	3		
MST121	Blueprint Reading	2		
ETD224	Engineering CO-OP	4		
	Total	26		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM122	Interpersonal Communication	3		
ENV121	Regulations and Compliance	3		
	Total	7		
	TOTAL CREDIT HOURS	33		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ENV121	Regulations and Compliance	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	<u>2</u>	
		16	
<u>Second Semester</u>			
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
PET132	Petroleum Instrumentation	3	
MST121	Blueprint Reading	2	
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230
COM122	Interpersonal Communication	<u>3</u>	
		13	
<u>Summer</u>			
ETD224	Engineering CO-OP	<u>4</u>	
		4	
	TOTAL CREDITS	33	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required



ASSOCIATE OF APPLIED SCIENCE

PETROLEUM TECHNOLOGY – INSTRUMENTATION ELECTRONICS TECHNICIAN MAJOR

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and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
PET101	Introduction to the Petroleum Industry	3		
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2		
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230	
PET132	Petroleum Instrumentation	3		
MST121	Blueprint Reading	2		
ETD224	Engineering CO-OP	4		
AIT139	Introduction to Robotics	2		
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM122	Interpersonal Communication	3		
ENV121	Regulations and Compliance	3		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics (lab) [^]	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
CHM101	Introduction to Chemistry ^{^▲}	4	(MTH093 and MTH094)++ or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
GEO141	Physical Geology	4		
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

⁺⁺Minimum grade of "C" required

[▲]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ENV121	Regulations and Compliance	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
PET102	Introduction to Supervisory Control and Data Acquisition (SCADA)	2	
COM122	Interpersonal Communication	<u>3</u>	
		19	
<u>Second Semester</u>			
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
PET132	Petroleum Instrumentation	3	
EET263	Industrial Sensors/Advanced Applications	2	EET120 or EST230
MST121	Blueprint Reading	2	
MTH125	College Algebra^	<u>4</u>	(MTH093 and MTH094)++ or Proficiency
		14	
<u>Summer</u>			
ETD224	Engineering CO-OP	<u>4</u>	
		4	
<u>Third Semester</u>			
GEO141	Physical Geology	4	
EET228	PLCs and Industrial Controls II	3	EET227
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		14	
<u>Fourth Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
PHY101	Principles of Physics^ (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
AIT139	Introduction to Robotics	2	
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		12	
	TOTAL CREDITS	63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ONE-YEAR CERTIFICATE PRODUCTION TECHNICIAN

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4335

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
PET101	Introduction to the Petroleum Industry	3		
MET123	Material Science	2		
PET131	Corrosion Basics	3		
PET132	Petroleum Instrumentation	3		
PET141	Oil & Gas Lease Operation	3		
PET142	Artificial Lift	3		
	Total	24		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM122	Interpersonal Communication	3		
ENV121	Regulations and Compliance	3		
	Total	7		
	TOTAL CREDIT HOURS	31		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of "B" required

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST221	Mechanical Drive Components	3	
ENV121	Regulations and Compliance	3	
PET101	Introduction to the Petroleum Industry	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+
MET123	Material Science	<u>2</u>	or Proficiency
		16	
<u>Second Semester</u>			
PET131	Corrosion Basics	3	
PET132	Petroleum Instrumentation	3	
PET141	Oil and Gas Lease Operation	3	
PET142	Artificial Lift	3	
COM122	Interpersonal Communication	<u>3</u>	
		15	
TOTAL CREDITS		31	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required



ASSOCIATE OF APPLIED SCIENCE

ELECTRICAL MAINTENANCE TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

4404

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
MST221	Mechanical Drive Components	3		
EST129	Switchgear, Transformers and Controls	2	EET120 or EST230	
EET126	Electrical Machines	4	EET122	
EET128	NEC and Electrical Systems Design	2	EET122	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
EET125	Circuit Manufacturing Techniques	1	EET120	
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MST121	Blueprint Reading	2		
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	<i>Check for prerequisites</i>	
Total		30		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of “B” required.

++Minimum grade of “C” required.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135 ITD100 or Proficiency
ITD122	Computer Applications for Professionals [^]	3	
MST121	Blueprint Reading	2	
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	(MTH093 and MTH094) ⁺⁺ or Proficiency
		15	
<u>Second Semester</u>			
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
EET125	Circuit Manufacturing Techniques	1	EET120
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230
MST134	Hydraulic and Pneumatic Systems [^]	6	(MTH091 and MTH092) ⁺ or Proficiency
ENG124	College Composition [^]	<u>3</u>	ENG011 or Proficiency
		16	
<u>Third Semester</u>			
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
EET128	NEC and Electrical Systems Design	2	EET122
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
MST221	Mechanical Drive Components	3	
ENG221	Technical Report Writing	<u>3</u>	ENG124
		15	
<u>Fourth Semester</u>			
EET126	Electrical Machines	4	EET122
EET228	PLCs and Industrial Controls II	3	EET227
EST129	Switchgear, Transformers and Controls	2	EET120 or EST230
Arts & Humanities Elective ¹		3	<i>Check for prerequisites</i>
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		16	
TOTAL CREDITS		62	

[^]Based on SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

⁺Minimum grade of "B" required.

⁺⁺Minimum grade of "C" required.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ASSOCIATE OF APPLIED SCIENCE

ELECTRICAL MAINTENANCE TECHNOLOGY – SOLAR ENERGY MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

4405

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
EET126	Electrical Machines	4	EET122	
EET128	NEC and Electrical Systems Design	2	EET122	
EET227	PLC's and Industrial Controls I	3	EET120 or EST230	
AET221	Solar Thermal Systems	3	AET121	
AET222	Solar Photovoltaic Systems	3		
EET125	Circuit Manufacturing Techniques	1	EET120	
AET121	Sustainable/AET Sources	3		
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ENV165	OSHA 10-Hour Construction Safety	1		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
DET125	Basic AutoCAD	3		
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra	4	MTH135 or (MTH125 and MTH130)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		63		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

1516 Catalog Effective Summer 2015	ELECTRICAL MAINTENANCE TECHNOLOGY – SOLAR ENERGY MAJOR	4405

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
DET125	Basic AutoCAD	3	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
ENV165	OSHA 10-Hour Construction Safety	<u>1</u> 17	
<u>Second Semester</u>			
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
EET125	Circuit Manufacturing Techniques	1	EET120
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
AET121	Sustainable/AET Sources	3	
ENG124	College Composition^	<u>3</u> 17	ENG011 or Proficiency
<u>Third Semester</u>			
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
EET128	NEC and Electrical Systems Design	2	EET122
EET227	PLC's and Industrial Controls I	3	EET120 or EST230
AET221	Solar Thermal Systems	3	AET 121
ENG221	Technical Report Writing	<u>3</u> 15	ENG124
<u>Fourth Semester</u>			
EET126	Electrical Machines	4	EET122
AET222	Solar Photovoltaic Systems	3	
PHY121	College Physics I with Algebra	4	MTH135 or (MTH125 and MTH130)
Arts & Humanities Elective ¹		<u>3</u> 14	<i>Check for prerequisites</i>
TOTAL CREDITS		63	

[^]Based on SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

⁺Minimum grade of "B" required.

⁺⁺Minimum grade of "C" required.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



ONE-YEAR CERTIFICATE

PREDICTIVE AND PREVENTIVE MAINTENANCE TECHNOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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5029

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST125	Basic Pumps	3		
MST126	Pipefitting Principles and Applications	3		
MST134	Hydraulic & Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
AIT134	Predictive & Preventive Maintenance Technologies I	3	MST221 and MST125	
AIT222	Predictive & Preventive Maintenance Technologies II	3	AIT134	
Total		27		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
Total		9		
TOTAL CREDIT HOURS		36		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of “B” required.

⁺⁺Minimum grade of “C” required

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE PREDICTIVE AND PREVENTIVE MAINTENANCE TECHNOLOGY	5029

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MST121	Blueprint Reading	2	
MST125	Basic Pumps	3	
MST221	Mechanical Drive Components	3	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
MST126	Pipefitting Principles & Applications	<u>3</u> 17	
<u>Second Semester</u>			
AIT134	Predictive & Preventive Maintenance Technologies I	3	MST221 and MST125
MST134	Hydraulic & Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
EST230	Electrical Circuits and Devices ^	<u>4</u> 13	(MTH093 and MTH094)+ or Proficiency
<u>Summer Semester</u>			
CSE122	Programming Logic & Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
AIT222	Predictive & Preventive Maintenance Technologies II	<u>3</u> 6	AIT134
TOTAL CREDITS		36	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required.

++Minimum grade of "C" required



ASSOCIATE OF APPLIED SCIENCE

ENVIRONMENTAL, HEALTH, AND SAFETY TECHNOLOGY

1516 Catalog

Effective Summer 2015

4450

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Numbers	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV121	Regulations & Compliance	3		
ENV123 or ENV165	OSHA 10-Hour General Industry Safety or OSHA 10-Hour Construction Safety	1 or 1		
ENV124	Transportation Haz Mat Training	1		
ENV164	Sustainable Green Building Technology	3		
ENV221	OSHA 40-Hour HAZWOPER	2		
ENV222	Industrial Processes and Pollution Control	3	(CHM121 or CHM141) and MTH107	
ENV223	Basic Geology/Hydrology	3	MTH107	
ENV224	Air Sampling, Analysis, and Control	3	(CHM121 or CHM141) and ENV121	
ENV225	Solid & Hazardous Waste Sampling, Analysis and Management	3	(CHM121 or CHM141) and ENV121	
ENV226	Water Sampling, Analysis, and Control	3	(CHM121 or CHM141) and ENV121 and ENV223	
ENV228	Health & Safety	3	ENV121	
TECHNICAL ELECTIVES: Choose two (2) credit hours minimum from the list below				
ENV125	Intro to Haz Mat & Waste Management	1		
ENV163	Water/Wastewater Math and Chemistry	2		
ENV169	Radiation Safety	2		
ENV127	Water Certificate Exam Preparation	2		
ENV128	Wastewater Certificate Exam Preparation	2		
ENV230	OSHA 8-Hour Refresher +++	1		
ENV231	OSHA 30-Hour General Industry	2		
ENV236	Environmental, Health and Safety Special Projects	3	ENV121 and ITD122 and ENV221	
Total		30-31		
NON-TECH Course Numbers	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
MTH107	Industrial Math^	3	(MTH091 and MTH092)+ or Proficiency	
GIS123	Maps and Map Reading	3		
GIS231	Geographic Information Systems	3	GIS123 or ENV223	
CHM121	General, Organic & Biological Chemistry I (lab)▲	4	HS CHM or CHM101	
CHM122	General, Organic & Biological Chemistry II (lab)	4	CHM121	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
BIO126	Science, Energy, & the Environment (lab)	4		
	Select one (1) Arts & Humanities Elective from the list below. ¹	3	Check for prerequisites	
Total		34		
TOTAL CREDIT HOURS		64-65		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

▲ Because of strong emphasis on science, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

+++ENV230 must be taken by students who wish to complete annual refreshers of their 40-Hour HAZWOPER training

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

1516 Catalog Effective Summer 2015	ENVIRONMENTAL, HEALTH, AND SAFETY TECHNOLOGY	4450

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH107	Industrial Math^	3	(MTH091 and MTH092)+ or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
BIO126	Science, Energy, & the Environment (lab)	4	
CHM121	Gen., Org., & Bio Chemistry I (lab)▲	4	HS CHM or CHM101
ENV123	OSHA 10-Hour General Industry Safety	1	
or	or	or	
ENV165	OSHA 10-Hour Construction Safety	<u>1</u> 16	
<u>Second Semester</u>			
CHM122	Gen., Org., & Bio Chemistry II (lab)	4	CHM121
ENV164	Sustainable Green Building Technology	3	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENV221	OSHA 40-Hour HAZWOPER	2	
ENV121	Regulations & Compliance	<u>3</u> 15	
<u>Third Semester</u>			
ENV124	Transportation Haz Mat Training	1	
ENV222	Industrial Processes and Pollution Control	3	(CHM121 or CHM141) and MTH107
ENV223	Basic Geology/Hydrology	3	MTH107
ENV224	Air Sampling, Analysis, and Control	3	(CHM121 or CHM141) and ENV121
GIS123	Maps and Map Reading	3	
Arts & Humanities Elective ¹		<u>3</u> 16	<i>Check for prerequisites</i>
<u>Fourth Semester</u>			
GIS231	Geographic Information Systems	3	GIS123 or ENV223
ENG221	Technical Report Writing	3	ENG124
ENV225	Solid and Hazardous Waste Sampling, Analysis and Management	3	(CHM121 or CHM141) and ENV121
ENV226	Water Sampling, Analysis and Control	3	(CHM121 or CHM141) and ENV121 and ENV223
ENV228	Health & Safety	3	ENV121
Technical Elective ²		<u>2-3</u> 17-18	<i>Check for prerequisites</i>
TOTAL CREDITS		64-65	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

▲ Because of strong emphasis on science, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Technical Electives: ENV125, ENV163, ENV169, ENV127, ENV128, ENV230, ENV231, ENV236

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Additional courses available below for CDL Certificate:

Course Numbers	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CDL121	CDL Class A - Safe Operation & Control *	5	CDL122 and CDL123	
CDL122	CDL Class A - Advanced Operations and Maintenance	6	CDL121 and CDL123	
CDL123	CDL Class A - Behind the Wheel Street	2	CDL121 and CDL122	

*Participation in CDL121 requires a valid Ohio Driver's License with 2 years' driving experience. Must be 18 years of age and show proof of citizenship. Must meet Department of Transportation (DOT) vision and physical requirements and pass the DOT drug screen. **(Cost is \$4200.)**

**Students must pass the Ohio CDL Class A Driver's License examination to receive their Class A CDL.
The examination is administered at the end of CDL123.**



ASSOCIATE OF APPLIED SCIENCE

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY

1516 Catalog
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4500

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC121	HVAC Principles I	3		
HVC122	HVAC Principles II	3	Co-HVC121	
HVC227	HVAC Field Installation Techniques and Procedures	4	Co-HVC122	
TECHNICAL ELECTIVES: 21 credit hours minimum				
HVC125	Sheet Metal Layout and Fabrication	4		
HVC222	HVAC Design and Application	3	HVC122	
HVC223	HVAC System Operation & Troubleshooting – Heating	3	HVC122	
HVC224	HVAC System Operation & Troubleshooting – Cooling	3	HVC122	
HVC232	Advanced HVAC Applications	3	HVC222 and HVC227	
HVC234	HVAC Electrical Systems & Applications [^]	3	HVC121 and [(MTH093 and MTH094)++ or Proficiency]	
HVC235	Refrigeration	3	HVC122	
HVC236	Advanced HVAC Electrical Applications	3	HVC234	
HVC237	HVAC Commercial Controls	3		
HVC238	Chiller Operations	3	HVC122	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	Take first semester	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
PHY101	Principles of Physics (lab) [^]	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
MTH107 or MTH125	Industrial Math [^] or College Algebra [^] Ω	3 or 4	(MTH091 and MTH092)+ or Proficiency (MTH093 and MTH094)++ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM121 or COM123	Effective Speaking or Small Group Communication	3 or 3	None or ENG124	
	Select one (1) Social & Behavioral Sciences or Arts & Humanities Elective ³	3	Check for prerequisites	
NON-TECH ELECTIVES: 8 credit hours minimum				
CET121	Building Materials and Construction Methods	3		
DET125	Basic AutoCAD	3		
ENV231	OSHA 30-Hour General Industry	2		
MST121	Blueprint Reading	2		
MST126	Pipefitting Principles and Applications	3		
Total		31-32		
TOTAL CREDIT HOURS		62-63		

See next page for footnote specifics

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101 Student Success Seminar^^	1	<i>Take first semester</i>
ENG124 College Composition^	3	ENG011 or Proficiency
MTH107 Industrial Math^	3	(MTH091 and MTH092)+
or	or	or Proficiency
MTH125 College Algebra^ Ω	4	(MTH093 and MTH094)++
		or Proficiency
HVC121 HVAC Principles I	3	
HVC122 HVAC Principles II	3	Co-HVC121
<i>Social & Behavioral Sciences or Arts & Humanities Elective</i> ³	<u>3</u>	<i>Check for prerequisites</i>
	16-17	
<u>Second Semester</u>		
COM121 Effective Speaking	3	None
or	or	or
COM123 Small Group Communication	3	ENG124
ITD122 Computer Applications for Professionals^	3	ITD100 or Proficiency
HVC227 HVAC Field Installation Techniques and Procedures	4	Co-HVC122
<i>Non-Technical Elective</i> ²	<u>3</u>	<i>Check for prerequisites</i>
	13	
<u>Third Semester</u>		
ENG221 Technical Report Writing	3	ENG124
<i>Technical Electives</i> ¹	12	<i>Check for prerequisites</i>
<i>Non-Technical Elective</i> ²	<u>2</u>	<i>Check for prerequisites</i>
	17	
<u>Fourth Semester</u>		
PHY101 Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
<i>Technical Electives</i> ¹	9	<i>Check for prerequisites</i>
<i>Non-Technical Elective</i> ²	<u>3</u>	<i>Check for prerequisites</i>
	16	
TOTAL CREDITS	62-63	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

++Minimum grade of "C" required

ΩMTH125 should only be taken by students planning to transfer to a four-year institution

¹Technical Electives: HVC125, HVC222, HVC223, HVC224, HVC232, HVC234, HVC235, HVC236, HVC237, HVC238

²Non-technical Electives: CET121, DET125, ENV231, MST121, MST126

³Social & Behavioral Sciences or Arts & Humanities electives: BUS122 (recommended), BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY124, PSY220, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225, ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122 (recommended)



ONE-YEAR CERTIFICATE

HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY

1516 Catalog
Effective Summer 2015

4501

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC121	HVAC Principles I	3		
HVC122	HVAC Principles II	3	Co-HVC121	
HVC125	Sheet Metal Layout and Fabrication	4		
HVC223	HVAC System Operation and Troubleshooting – Heating	3	HVC122	
HVC224	HVAC System Operation and Troubleshooting – Cooling	3	HVC122	
HVC227	HVAC Field Installation Techniques and Procedures	4	Co-HVC122	
HVC234	HVAC Electrical Systems and Applications [^]	3	(MTH093 and MTH094) ⁺⁺ or Proficiency	
Total		23		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
NON-TECH ELECTIVES: 3 credit hours minimum				
CET121	Building Materials and Construction Methods	3		
ENV231	OSHA 30-Hour General Industry	2		
MST121	Blueprint Reading	2		
MST126	Pipefitting Principles and Applications	3		
Total		7		
TOTAL CREDIT HOURS		30		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of “C” required

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY	4501

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>
HVC121	HVAC Principles I	3	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency
<i>Non-Technical Elective²</i>		<u>3</u>	
		10	
<u>Second Semester</u>			
HVC122	HVAC Principles II	3	Co-HVC121
HVC125	Sheet Metal Layout and Fabrication	4	
HVC227	HVAC Field Installation Techniques/Procedures	4	Co-HVC122
HVC234	HVAC Electrical Systems and Applications [^]	<u>3</u>	(MTH093 and MTH094) ⁺⁺ or Proficiency
		14	
<u>Summer Semester</u>			
HVC223	HVAC System Operation and Troubleshooting – Heating	3	HVC122
HVC224	HVAC System Operation and Troubleshooting – Cooling	<u>3</u>	HVC122
		6	
TOTAL CREDITS		30	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of “C” required

²Non-Technical Electives: CET121, ENV231, MST121, MST126



ASSOCIATE OF APPLIED SCIENCE

ELECTRIC POWER UTILITY TECHNOLOGY*

LINE WORKER TECHNICIAN MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

4551

Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EST230	Electrical Circuits & Devices	4	(MTH093 and MTH094)+ or Proficiency	
IET121	Industrial Management Concepts	2		
EST129	Switchgear, Transformers & Controls	2	EET120 or EST230	
EST235	Power Generation & Grid Technology	3	EST230	
EUT121	Overhead Line Technology I	5		
EUT122	Overhead Line Technology II	5	EUT121	
EUT221	Overhead Line Technology III	5	EUT122	
EUT222	Overhead Line Technology IV	5	EUT221	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PSY124	Industrial / Organizational Psychology	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH107	Industrial Math	3	(MTH091 and MTH092)+ or Proficiency	
SSC101	Student Success Seminar^^	1	Take first semester	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PHL122	Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM123	Small Group Communication	3	ENG124	
FIN110	Personal Finance	2		
Total		31		
TOTAL CREDIT HOURS		62		

* **NOTE:** Initial enrollment and continued participation in this program is at the sole discretion of The FirstEnergy Corp of Akron, Ohio.

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

1516 Catalog Effective Summer 2015	ELECTRIC POWER UTILITY TECHNOLOGY* LINE WORKER TECHNICIAN MAJOR	4551

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
EUT121	Overhead Line Technology I	5	
MTH107	Industrial Math	<u>3</u>	(MTH091and MTH092)+ or Proficiency
		15	
<u>Second Semester</u>			
EST230	Electrical Circuits & Devices	4	(MTH093and MTH094)+ or Proficiency
PSY124	Industrial / Organizational Psychology	3	
PHL122	Ethics	3	
COM123	Small Group Communication	3	ENG124
EUT122	Overhead Line Technology II	<u>5</u>	EUT121
		18	
<u>Third Semester</u>			
PHY101	Principles of Physics(lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
BUS122	Basic Economics	3	IDS102 or Proficiency
EST235	Power Generation & Grid Technology	3	EST230
EUT221	Overhead Line Technology III	<u>5</u>	EUT122
		15	
<u>Fourth Semester</u>			
FIN110	Personal Finance	2	
ENG221	Technical Report Writing	3	ENG124
IET121	Industrial Management Concepts	2	
EST129	Switchgear, Transformers & Controls	2	EET120 or EST230
EUT222	Overhead Line Technology IV	<u>5</u>	EUT221
		14	
	TOTAL CREDITS	62	

* **NOTE:** Initial enrollment and continued participation in this program is at the sole discretion of The FirstEnergy Corp of Akron, Ohio.

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.



ASSOCIATE OF APPLIED SCIENCE

ELECTRIC POWER UTILITY TECHNOLOGY* SUBSTATION WORKER TECHNICIAN MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EST230	Electrical Circuits & Devices	4	(MTH093 and MTH094)+ or Proficiency	
IET121	Industrial Management Concepts	2		
EST129	Switchgear, Transformers & Controls	2	EET120 or EST230	
EST235	Power Generation & Grid Technology	3	EST230	
EUT123	Substation Technology I	5		
EUT124	Substation Technology II	5	EUT123	
EUT224	Substation Technology III	5	EUT124	
EUT225	Substation Technology IV	5	EUT224	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PSY124	Industrial / Organizational Psychology	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH107	Industrial Math	3	(MTH091 and MTH092)+ or Proficiency	
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
PHY101	Principles of Physics(lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PHL122	Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM123	Small Group Communication	3	ENG124	
FIN110	Personal Finance	2		
Total		31		
TOTAL CREDIT HOURS		62		

* **NOTE:** Initial enrollment and continued participation in this program is at the sole discretion of The FirstEnergy Corp of Akron, Ohio.

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

1516 Catalog Effective Summer 2015	ELECTRIC POWER UTILITY TECHNOLOGY* SUBSTATION WORKER TECHNICIAN MAJOR	4552

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
EUT123	Substation Technology I	5	
MTH107	Industrial Math	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		15	
<u>Second Semester</u>			
EST230	Electrical Circuits & Devices	4	(MTH093 and MTH094)+ or Proficiency
PSY124	Industrial / Organizational Psychology	3	
PHL122	Ethics	3	
COM123	Small Group Communication	3	ENG124
EUT124	Substation Technology II	<u>5</u>	EUT123
		18	
<u>Third Semester</u>			
PHY101	Principles of Physics(lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107or MTH108) and (IDS102 or Proficiency)
BUS122	Basic Economics	3	IDS102 or Proficiency
EST235	Power Generation & Grid Technology	3	EST230
EUT224	Substation Technology III	<u>5</u>	EUT124
		15	
<u>Fourth Semester</u>			
FIN110	Personal Finance	2	
ENG221	Technical Report Writing	3	ENG124
IET121	Industrial Management Concepts	2	
EST129	Switchgear, Transformers & Controls	2	EET120 or EST230
EUT225	Substation Technology IV	<u>5</u>	EUT224
		14	
TOTAL CREDITS		62	

***NOTE:** Initial enrollment and continued participation in this program is at the sole discretion of The FirstEnergy Corp of Akron, Ohio.

^ Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.



ONE-YEAR CERTIFICATE

AUTOMATION AND ROBOTICS TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

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Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IET223	Computer Numerical Control	4		
AIT139	Introduction to Robotics	2		
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET227	PLCs and Industrial Controls I	3	EST230 or EET120	
MST221	Mechanical Drive Components	3		
TECHNICAL ELECTIVES: 2 credit hours minimum				
AIT220	Industrial Robotics	4	AIT139	
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
EET263	Industrial Sensors and Advanced Applications	2	EST230 or EET120	
EET228	PLCs and Industrial Controls II	3	EET227	
Total		18-20		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
DET125	Basic AutoCAD	3		
CSE122	Programming Logic & Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
Total		12		
TOTAL CREDIT HOURS		30-32		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of “C” required

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE AUTOMATION AND ROBOTICS TECHNOLOGY	4555

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
CSE122	Programming Logic & Problem Solving^	<u>3</u> 9	(IDS102 or Proficiency) and (ITD100 or Proficiency)
<u>Second Semester</u>			
AIT139	Introduction to Robotics	2	
DET125	Basic AutoCAD	3	
IET223	Computer Numerical Control	4	
EET120	DC Circuit Analysis	<u>4</u> 13	Pre- or Co-MTH125 or Pre- or Co-MTH135
<u>Third Semester</u>			
EET227	PLCs and Industrial Controls I	3	EST230 or EET120
MST221	Mechanical Drive Components	3	
Technical Elective ¹		<u>2-4</u> 8-10	<i>Check for prerequisites</i>
TOTAL CREDITS		30-32	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

¹Technical Electives: AIT220, AIT221, EET228, EET263



ASSOCIATE OF APPLIED SCIENCE

AUTOMATION AND ROBOTICS TECHNOLOGY

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Engineering Technologies/Information Technologies Division

Industrial Technology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST221	Mechanical Drive Components	3		
IET223	Computer Numerical Control	4		
AIT139	Introduction to Robotics	2		
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230	
AIT220	Industrial Robotics	4	AIT139	
AIT226	Robotic Vision	2	AIT220	
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122	
	Total	30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE229	Visual Basic Development	3	CSE122	
DET125	Basic AutoCAD	3		
NET120	PC Upgrading and Maintenance	3		
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
PHL122	Ethics	3		
	Total	31		
	TOTAL CREDIT HOURS	61		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
MST221	Mechanical Drive Components	3	
MTH135	Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i>	5	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	<u>3</u> 15	ENG011 or Proficiency
<u>Second Semester</u>			
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135
DET125	Basic AutoCAD	3	
AIT139	Introduction to Robotics	2	
CSE229	Visual Basic Development	3	CSE122
ENG221	Technical Report Writing	<u>3</u> 15	ENG124
<u>Third Semester</u>			
AIT220	Industrial Robotics	4	AIT139
IET223	Computer Numerical Control	4	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
EET263	Industrial Sensors and Advanced Applications	2	EET120 or EST230
NET120	PC Upgrading and Maintenance	<u>3</u> 16	
<u>Fourth Semester</u>			
AIT221	Advanced CNC Programming	3	IET223 or ARL121 or ARL122
AIT226	Robotic Vision	2	AIT220
EET228	PLCs and Industrial Controls II	3	EET227
PHL122	Ethics	3	
PHY121	College Physics I with Algebra (lab)	<u>4</u> 15	MTH135 or (MTH125 and MTH130)
TOTAL CREDITS		61	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required



CAREER ENHANCEMENT CERTIFICATE

ASE TEST PREPARATION ELECTIVES

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

2258

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Stark State College Automotive Service Excellence (ASE) test preparation elective courses are designed to prepare the student for the ASE certification and testing process. ASE is the nationally recognized industry standard for automotive technician certification.

In the ASE Test Preparation elective, students will access ASE practice tests, instructional videos, technical reference materials, and discussion forums via Stark State College's approved learning management system. Instructor-led discussions will cover ASE certification areas A-1 Engine Repair, A-4 Suspension and Steering, A-5 Brakes, A-6 Electrical/Electronic Systems, and A-7 Heating and Air Conditioning.

In the Applied Automotive Principles elective, students will develop greater confidence and better hands-on skills through an instructor-guided work experience in an automotive lab environment. By referencing service information and applying a strategy-based diagnostic approach, students will be able to reinforce their existing technical skills and develop new service techniques that will help them to be better prepared for ASE certification and to enter the workplace as an automotive technician. Hands-on labs will directly relate to ASE certification areas A-1 Engine Repair, A-4 Suspension and Steering, A-5 Brakes, A-6 Electrical/Electronic Systems, and A-7 Heating and Air Conditioning.

The courses listed below are electives to the Automotive Technology Associate Degree program (2250).

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT 137	ASE Test Preparation	2		
AUT 138	Applied Automotive Principles	4		
	TOTAL CREDIT HOURS	6		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.



CAREER ENHANCEMENT CERTIFICATE

AUTOMOTIVE AFTERMARKET VEHICLE MODIFICATIONS

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2259

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Stark State College Automotive Aftermarket Vehicle Modifications Career Enhancement Certificate courses are designed to prepare the student for the fast-growing area of vehicle modifications using aftermarket components and procedures. Students will practice new technical skills while being introduced to the business side of the aftermarket industry. Upon completion of the classes listed below, students will be prepared to work at a new or used car dealership's accessories department, work at an independent or franchised aftermarket shop, or possibly start their own aftermarket vehicle modifications business.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT121	Automotive Technical Skills	2		
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121	
AUT254	Automotive Aftermarket Vehicle Interior Modifications	3	AUT125	
AUT255	Automotive Aftermarket Vehicle Exterior Modifications	3	AUT125	
AUT256	Automotive Aftermarket Vehicle Powertrain Modifications	3	AUT123	
AUT257	Automotive Aftermarket Vehicle Chassis Modifications	3	AUT124	
TOTAL CREDIT HOURS		26		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AUT121	Automotive Technical Skills	2	
AUT123	Engine Diagnosis and Major Service	<u>4</u>	AUT121
		6	

Second Semester

AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Circuits	<u>4</u>	AUT121
		8	

Third Semester

AUT254	Automotive Aftermarket Vehicle Interior Modifications	3	AUT125
AUT255	Automotive Aftermarket Vehicle Exterior Modifications	3	AUT125
AUT256	Automotive Aftermarket Vehicle Powertrain Modifications	3	AUT123
AUT257	Automotive Aftermarket Vehicle Chassis Modifications	<u>3</u>	AUT124
		12	
TOTAL CREDITS		26	



CAREER ENHANCEMENT CERTIFICATE

AUTOMOTIVE DETAILING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2260

*Engineering Technologies/Information Technologies
Division*

Automotive and Transportation Department

The Stark State College Automotive Detailing Career Enhancement Certificate courses are designed to prepare the student to become a professional automotive detail technician. These courses can be selected as electives to the automotive technology associate degree program (2250) or as a stand-alone Career Enhancement Certificate.

The curriculum is a blend of classroom theory and extensive hands-on lab assignments that follow the International Detailing Association (IDA) guidelines. Successful completion of these courses will prepare the student to be an industry certificated (IDA) automotive detailing technician. Successful completion can also lead to employment opportunities in automotive dealership detailing departments, independent detailing companies, or franchised detailing companies. Students should be able to even start their own detailing business.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT130	Automotive Safety and Shop Standards	2		
AUT131	Automotive Detailing Business Practices	2		
AUT132	Automotive Exterior Detailing	3		
AUT133	Automotive Interior Detailing	2	AUT132	
AUT134	Automotive Under-Hood and Under-Car Detailing	2	AUT132	
AUT135	Advanced Automotive Detailing Techniques	3	AUT132	
AUT136	Practical Automotive Detailing Applications	2	AUT132	
TOTAL CREDIT HOURS		16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

AUT130	Automotive Safety and Shop Standards	2
AUT131	Automotive Detailing Business Practices	2
AUT132	Automotive Exterior Detailing	<u>3</u>
		7

Second Semester

AUT133	Automotive Interior Detailing	2	AUT132
AUT134	Automotive Under-Hood and Under-Car Detailing	<u>2</u>	AUT132
		4	

Third Semester

AUT135	Advanced Automotive Detailing Techniques	3	AUT132
AUT136	Practical Automotive Detailing Applications	<u>2</u>	AUT132
		5	

TOTAL CREDITS **16**

	CAREER ENHANCEMENT CERTIFICATE AUTOMOTIVE MAINTENANCE AND LIGHT REPAIR <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 2261

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Stark State College Automotive Maintenance and Light Repair Career Enhancement Certificate quickly prepares the student to enter the job market at an automotive service facility. In our state-of-the-art automotive facility, students will use the latest tools and equipment to apply practical service techniques to our fleet of late-model vehicles. This builds hands-on skills that can be applied immediately upon completion.

The curriculum is accredited by the National Automotive Technicians Education Foundation (NATEF) preparing students to pursue Automotive Service Excellence (ASE) certification.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT121	Automotive Technical Skills	2		
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Systems	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
	TOTAL CREDIT HOURS	20		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AUT121	Automotive Technical Skills	2	
AUT122	Automotive Systems and Engine Technology	4	AUT121
AUT123	Engine Diagnosis and Major Service	4	AUT121
		10	

Second Semester

AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Systems	4	AUT121
AUT126	Automotive HVAC Systems	2	AUT121
		10	

TOTAL CREDITS

20



CAREER ENHANCEMENT CERTIFICATE

AUTOMOTIVE TRANSMISSION AND DRIVELINE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

2262

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Stark State College Automotive Transmission and Driveline Career Enhancement Certificate prepares the student for a productive career as an automotive transmission and driveline specialist. In our two state-of-the-art automotive facilities, students use the latest tools and diagnostic equipment to apply practical service techniques to our fleet of late-model vehicles. This builds hands-on skills that can be applied immediately upon graduation.

The curriculum is accredited by the National Automotive Technicians Education Foundation (NATEF) preparing students to pursue Automotive Service Excellence (ASE) certification.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT121	Automotive Technical Skills	2		
AUT122	Automotive Systems and Engine Technology	4	AUT121	
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121	
AUT223	Advanced Automotive Electronics	3	AUT125	
AUT225	Automotive Drivetrain I	3	AUT121	
AUT226	Automotive Drivetrain II	3	AUT121	
AUT227	Computerized Vehicle Control	3	AUT125	
TOTAL CREDIT HOURS		26		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AUT121	Automotive Technical Skills	2	
AUT122	Automotive Systems and Engine Technology	4	AUT121
		6	

Second Semester

AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121
		8	

Third Semester

AUT223	Advanced Automotive Electronics	3	AUT125
AUT225	Automotive Drivetrain I	3	AUT121
AUT226	Automotive Drivetrain II	3	AUT121
AUT227	Computerized Vehicle Control	3	AUT125
		12	

TOTAL CREDITS

26



CAREER ENHANCEMENT CERTIFICATE

CAT LIFT TRUCK

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

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Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The CAT Lift Truck (CLT) Career Enhancement Certification is designed exclusively for the student who is seeking a career as a service technician at a Caterpillar Lift Truck dealership. The Caterpillar-specific curriculum is produced by MCFA. It prepares the student for a career as a Caterpillar Lift Truck Technician by providing Caterpillar Lift Truck's core certification courses that are needed for advancement at a CAT Lift Truck dealership.

The CLT curriculum is a blend of classroom theory and hands-on lab assignments. The curriculum follows OSHA and Industrial Truck Association (ITA) guidelines. CLT-specific classes are scheduled to run on selected Fridays throughout each semester, including the summer, and are a full day in length.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT121	Automotive Technical Skills	2		
AUT123	Engine Diagnosis and Major Service	4	AUT121	
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121	
AUT181	Intro To CAT Lift Trucks	1	AUT121	
AUT182	CAT Operator Safety Training	1	AUT181	
AUT183	CAT Service Information System	1	AUT181	
AUT184	CAT Hydraulic Systems	1	AUT121	
AUT185	CAT Internal Combustion Engine	2	AUT123	
AUT186	CAT Masts and Lift Mechanisms	1	AUT121	
AUT187	CAT Electrical Systems	3	AUT125	
AUT188	CAT Steering Systems	1	AUT121	
AUT189	CAT Braking Systems	1	AUT121	
AUT281	CAT Differentials and Front Axles	1	AUT121	
AUT282	CAT Transmissions	2	AUT121	
AUT283	CAT Fuel Systems (LP, Gasoline)	2	AUT123	
	TOTAL CREDIT HOURS	27		

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STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AUT121	Automotive Technical Skills	2	
AUT123	Engine Diagnosis and Major Service	4	AUT121
AUT125	Automotive Electrical and Accessory Circuits	<u>4</u>	AUT121
		10	
<u>Second Semester</u>			
AUT181	Intro To CAT Lift Trucks	1	AUT121
AUT182	CAT Operator Safety Training	1	AUT181
AUT183	CAT Service Information System	1	AUT181
AUT184	CAT Hydraulic Systems	1	AUT121
AUT185	CAT Internal Combustion Engine	<u>2</u>	AUT123
		6	
<u>Third Semester</u>			
AUT186	CAT Masts and Lift Mechanisms	1	AUT121
AUT187	CAT Electrical Systems	3	AUT125
AUT188	CAT Steering Systems	1	AUT121
AUT189	CAT Braking Systems	<u>1</u>	AUT121
		6	
<u>Fourth Semester</u>			
AUT281	CAT Differentials and Front Axles	1	AUT121
AUT282	CAT Transmissions	2	AUT121
AUT283	CAT Fuel Systems (LP, Gasoline)	<u>2</u>	AUT123
		5	
TOTAL CREDITS		27	



CAREER ENHANCEMENT CERTIFICATE

HONDA PACT

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Honda PACT Career Enhancement Certificate is designed exclusively for the student who is seeking a career as a service technician at a Honda/Acura dealership. The Honda PACT curriculum combines Stark State College NATEF-accredited automotive classes and Honda-specific curriculum that is produced by American Honda Motor Company, Inc. The Honda-specific classes provide Honda's core certification modules that are needed for advancement at a Honda/Acura dealership.

The Honda PACT classes are a blend of classroom theory and hands-on lab assignments. The Honda PACT classes are scheduled to run on selected Fridays throughout the semester, including the summer, and are a full day in length.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT121	Automotive Technical Skills	2		
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System Performance Diagnosis	3	AUT125	
AUT171	Introduction To Honda PACT	1	AUT121	
AUT172	Honda Engine Mechanical	2	AUT121	
AUT173	Honda Steering and Suspension	1	AUT124	
AUT174	Honda Braking Systems	1	AUT124	
AUT175	Honda Electrical Systems	2	AUT125	
AUT176	Honda HVAC Systems	1	AUT125	
AUT277	Honda Computerized Engine	2	AUT222	
AUT271	Honda Fuel and Emission System	1	AUT221	
AUT275	Honda Manual Transmissions	1	AUT121	
AUT276	Honda Automatic Transmissions	1	AUT121	
	TOTAL CREDIT HOURS	29		

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE HONDA PACT	2264

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AUT121	Automotive Technical Skills	2	
AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121
AUT171	Introduction to Honda PACT	1	AUT121
AUT172	Honda Engine Mechanical	2	AUT121
		13	
<u>Second Semester</u>			
AUT221	Fuel and Emission Management Systems	3	AUT125
AUT222	Engine System Performance Diagnosis	3	AUT125
AUT173	Honda Steering and Suspension	1	AUT124
AUT174	Honda Braking Systems	1	AUT124
AUT175	Honda Electrical Systems	2	AUT125
AUT176	Honda HVAC Systems	1	AUT125
		11	
<u>Third Semester</u>			
AUT277	Honda Computerized Engine	2	AUT222
AUT271	Honda Fuel and Emission System	1	AUT221
AUT275	Honda Manual Transmissions	1	AUT121
AUT276	Honda Automatic Transmissions	1	AUT121
		5	
TOTAL CREDITS		29	



CAREER ENHANCEMENT CERTIFICATE

TOYOTA T-TEN

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2265

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The T-TEN Career Enhancement Certificate is designed exclusively for the student who is seeking a career as a service technician at a Toyota/Lexus dealership. The T-TEN curriculum combines Stark State College NATEF-accredited automotive classes and Toyota-specific curriculum that is produced by the University of Toyota. The Toyota-specific classes provide Toyota's core certification modules that are needed for advancement at a Toyota/Lexus dealership.

The T-TEN curriculum is a blend of classroom theory and hands-on lab assignments. The curriculum follows both the ASE and NATEF guidelines. This allows the student to pursue ASE certification.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AUT121	Automotive Technical Skills	2		
AUT124	Vehicle Chassis Systems	4	AUT121	
AUT125	Automotive Electrical and Accessory Circuits	4	AUT121	
AUT126	Automotive HVAC Systems	2	AUT121	
AUT221	Fuel and Emissions Management Systems	3	AUT125	
AUT222	Engine System performance Diagnosis	3	AUT125	
AUT141	Vehicle Chassis Systems	2	AUT124	
AUT142	Auto Electrical Systems	2	AUT125	
AUT143	Auto HVAC Systems	1	AUT126	
AUT251	Automotive Drivetrain I	1	AUT121	
AUT252	Automotive Drivetrain II	1	AUT121	
AUT253	Computerized Vehicle Controls	2	AUT222	
	TOTAL CREDIT HOURS	27		

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE TOYOTA T-TEN	2265

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AUT121	Automotive Technical Skills	2	
AUT124	Vehicle Chassis Systems	4	AUT121
AUT125	Automotive Electrical and Accessory Circuits	<u>4</u>	AUT121
		10	
<u>Second Semester</u>			
AUT126	Automotive HVAC Systems	2	AUT121
AUT142	Auto Electrical Systems	2	AUT125
AUT221	Fuel and Emissions Management Systems	3	AUT125
AUT222	Engine Systems Performance Diagnosis	<u>3</u>	AUT125
		10	
<u>Third Semester</u>			
AUT141	Vehicle Chassis Systems	2	AUT124
AUT143	Auto HVAC Systems	1	AUT126
AUT251	Automotive Drivetrain I	1	AUT121
AUT252	Automotive Drivetrain II	1	AUT121
AUT253	Computerized Vehicle Controls	<u>2</u>	AUT222
		7	
	TOTAL CREDITS	27	



CAREER ENHANCEMENT CERTIFICATE

TOYOTA T-TEN - ELECTRICAL, MANUAL TRANSMISSION, HVAC

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2266

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Toyota T-TEN Regional program is designed to prepare students to become technicians at Toyota and Lexus dealerships. Certified Toyota T-TEN instructors will provide students with access to Toyota vehicle technology through curriculum designed by the University of Toyota and accredited by the National Automotive Technicians Educational Foundation (NATEF). Students successfully completing the Toyota T-TEN Regional Program Electrical, Manual Transmission, and HVAC Career Enhancement Certificate from Stark State College will be prepared to take three ASE (Automotive Service Excellence) Certification Tests (A-3, A-6, and A-7). The program structure also allows ample time for students to attend classes at Stark State College while working at an approved Toyota or Lexus dealership.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
TOY101	Introduction to Toyota T-TEN	3		
TOY102	Toyota Electrical Systems I	5	TOY101	
TOY201	Toyota Electrical Systems II	5	TOY102	
TOY106	Toyota Manual Transmissions and Drivetrains	5	TOY102	
TOY203	Toyota HVAC Systems	5	TOY201	
AUT193	Automotive CO-OP 3	2		
AUT194	Automotive CO-OP 4	2		
TOTAL CREDIT HOURS		27		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

TOY101	Introduction to Toyota T-TEN
TOY102	Toyota Electrical Systems I

Credit Hours

3
5
8

Pre- and Co-requisites

TOY101

Second Semester

TOY201	Toyota Electrical Systems II

5
5

TOY102

Third Semester

TOY106	Toyota Manual Transmissions and Drivetrains

5
5

TOY102

Fourth Semester

TOY203	Toyota HVAC Systems
AUT193	Automotive CO-OP 3

5
2
7

TOY201

Fifth Semester

AUT194	Automotive CO-OP 4

2
2

TOTAL CREDITS

27



CAREER ENHANCEMENT CERTIFICATE

TOYOTA T-TEN – ENGINE REPAIR, ENGINE CONTROL, AUTOMATIC TRANSMISSION

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2267

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Toyota T-TEN Regional program is designed to prepare students to become technicians at Toyota and Lexus dealerships. Certified Toyota T-TEN instructors will provide students with access to Toyota vehicle technology through curriculum designed by the University of Toyota and accredited by the National Automotive Technicians Educational Foundation (NATEF). Students successfully completing the Toyota T-TEN Regional Program Engine Repair, Engine Control, and Automatic Transmission Career Enhancement Certificate from Stark State College will be prepared to take three ASE (Automotive Service Excellence) Certification Tests (A-1, A-2, and A-8). The program structure also allows ample time for students to attend classes at Stark State College while working at an approved Toyota or Lexus dealership.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
TOY101	Introduction to Toyota T-TEN	3		
TOY102	Toyota Electrical Systems I	5	TOY101	
TOY104	Toyota Engine Diagnosis and Repair	5	TOY101	
TOY105	Toyota Engine Controls I	5	TOY104	
TOY204	Toyota Engine Controls II	5	TOY105	
TOY205	Toyota Automatic Transmissions	5	TOY204	
TOTAL CREDIT HOURS		28		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

TOY101 Introduction to Toyota T-TEN
TOY102 Toyota Electrical Systems I

Credit Hours

3
5
8

Pre- and Co-requisites

TOY101

Second Semester

TOY104 Toyota Engine Diagnosis and Repair

5
5

TOY101

Third Semester

TOY105 Toyota Engine Controls I

5
5

TOY104

Fourth Semester

TOY204 Toyota Engine Controls II
TOY205 Toyota Automatic Transmissions

5
5
10

TOY105
TOY204

TOTAL CREDITS

28



CAREER ENHANCEMENT CERTIFICATE

TOYOTA T-TEN – ELECTRICAL, BRAKES, STEERING AND SUSPENSION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2268

Engineering Technologies/Information Technologies Division

Automotive and Transportation Department

The Toyota T-TEN Regional program is designed to prepare students to become technicians at Toyota and Lexus dealerships. Certified Toyota T-TEN instructors will provide students with access to Toyota vehicle technology through curriculum designed by the University of Toyota and accredited by the National Automotive Technicians Educational Foundation (NATEF). Students successfully completing the Toyota T-TEN Regional Program Electrical, Brakes, Steering and Suspension Career Enhancement Certificate will be prepared to take three ASE (Automotive Service Excellence) Certification Tests (A-4, A-5, and A-6). The program structure also allows ample time for students to attend classes at Stark State College while working at an approved Toyota or Lexus dealership.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
TOY101	Introduction to Toyota T-TEN	3		
TOY102	Toyota Electrical Systems I	5	TOY101	
TOY103	Toyota Steering, Suspension, and Handling	5	TOY102	
TOY201	Toyota Electrical Systems II	5	TOY102	
TOY202	Toyota Automotive Braking Systems	5	TOY201	
AUT191	Automotive CO-OP 1	2		
AUT192	Automotive CO-OP 2	2		
	TOTAL CREDIT HOURS	27		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
TOY101	Introduction to Toyota T-TEN	3	
TOY102	Toyota Electrical Systems I	5	TOY101
TOY103	Toyota Steering, Suspension, and Handling	5	TOY102
AUT191	Automotive CO-OP 1	2	
		15	

Second Semester

TOY201	Toyota Electrical Systems II	5	TOY102
TOY202	Toyota Automotive Braking Systems	5	TOY201
AUT192	Automotive CO-OP 2	2	
		12	

TOTAL CREDITS	27	



CAREER ENHANCEMENT CERTIFICATE

APPLIED INDUSTRIAL TECHNOLOGY – QUALITY ASSURANCE SPECIALIST

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4002

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST131	Statistical Process Control Charts [^]	2	(MTH093 and MTH094)++ or Proficiency	
IET270	Dimensional Metrology and Inspection I [^]	3	(MTH093 and MTH094)++ or Proficiency	
	TOTAL CREDIT HOURS	5		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

MST131	Statistical Process Control Charts [^]	2	(MTH093 and MTH094)++ or Proficiency
IET270	Dimensional Metrology and Inspection I [^]	<u>3</u>	(MTH093 and MTH094)++ or Proficiency
	TOTAL CREDITS	5	

[^]Based on SSC placement scores

++Minimum grade of "C" required

 	CAREER ENHANCEMENT CERTIFICATE DESIGN ENGINEERING TECHNOLOGY – ADVANCED CAD <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4003

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DET125	Basic AutoCAD	3		
DET132	SolidWorks	3	DET125	
DET126	Customizing AutoCAD	3	DET125	
DET131	Pro/ENGINEER (Creo Parametric)	3	DET125	
DET230	Advanced AutoCAD (Inventor)	3	DET125	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

DET125 Basic AutoCAD

Credit Hours

3
3

Pre- and Co-requisites

Second Semester

DET132 SolidWorks

3

DET125

DET126 Customizing AutoCAD

3

DET125

DET131 Pro/ENGINEER (Creo Parametric)

3

DET125

DET230 Advanced AutoCAD (Inventor)

3

DET125

12

TOTAL CREDITS

15



CAREER ENHANCEMENT CERTIFICATE

DESIGN ENGINEERING TECHNOLOGY - AUTOCAD

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4004

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DET125	Basic AutoCAD	3		
DET126	Customizing AutoCAD	3	DET125	
DET230	Advanced AutoCAD (Inventor)	3	DET125	
	TOTAL CREDIT HOURS	9		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

DET125 Basic AutoCAD

Credit Hours

3
3

Pre- and Co-requisites

Second Semester

DET126 Customizing AutoCAD

3

DET125

DET230 Advanced AutoCAD (Inventor)

3
6

DET125

TOTAL CREDITS

9



CAREER ENHANCEMENT CERTIFICATE

DESIGN ENGINEERING TECHNOLOGY – PRECISION GAUGING AND INSPECTION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4005

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DET121	Engineering Drawing	3		
DET124	Working Drawings	3	DET121 and Co-DET125	
DET125	Basic AutoCAD	3		
DET226	Geometric Dimensioning and Tolerancing	2	DET124	
IET270	Dimensional Metrology and Inspection I [^]	3	(MTH093 and MTH094) ⁺⁺ or Proficiency	
TOTAL CREDIT HOURS		14		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

DET121 Engineering Drawing

IET270 Dimensional Metrology and Inspection I[^]

Credit Hours

3

3

6

Pre- and Co-requisites

(MTH093 and MTH094)⁺⁺
or Proficiency

Second Semester

DET124 Working Drawings

DET125 Basic AutoCAD

3

3

6

DET121 **and** Co-DET125

Third Semester

DET226 Geometric Dimensioning and Tolerancing

2
2

DET124

TOTAL CREDITS

14

[^]Based on SSC placement scores

⁺⁺Minimum grade of "C" required

 	CAREER ENHANCEMENT CERTIFICATE MECHANICAL ENGINEERING TECHNOLOGY – FUEL CELL <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4055

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MET229	Introduction to Alternative and Renewable Energy/Fuel Cells	3		
MET230	Analysis and Applications of Types of Fuel Cells	3	MET229	
MET231	Fuel Cell Systems	3	MET230	
MET232	Fuel Cell Project	3	MET231	
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

MET229 Introduction to Alternative and Renewable Energy/Fuel Cells

Credit Hours

3

Pre- and Co-requisites

Second Semester

MET230 Analysis and Applications of Types of Fuel Cells

3

MET229

Third Semester

MET231 Fuel Cell Systems

3

MET230

Fourth Semester

MET232 Fuel Cell Project

3

MET231

TOTAL CREDITS

12



CAREER ENHANCEMENT CERTIFICATE

MECHANICAL ENGINEERING TECHNOLOGY – MACHINE DESIGN

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4056

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MET221	Advanced Strength of Materials	2	MET124	
MET226	Technical Project – Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125	
MET228	Machine Design	4	MET124	
	TOTAL CREDIT HOURS	8		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

MET221	Advanced Strength of Materials	2	MET124
MET226	Technical Project – Mechanical and Design	2	Pre- or Co-MET228 and Pre- or Co-DET125
MET228	Machine Design	<u>4</u>	MET124
	TOTAL CREDITS	8	



CAREER ENHANCEMENT CERTIFICATE

MECHANICAL ENGINEERING TECHNOLOGY – MECHANICAL POWER

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4057

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency	
MET222	Fluid Power	4	MET124	
MET228	Machine Design	4	MET124	
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
MET222	Fluid Power	4	MET124
MET228	Machine Design	4	MET124
	TOTAL CREDITS	12	

^Based on SSC placement scores

+Minimum grade of "B" required



CAREER ENHANCEMENT CERTIFICATE

CIVIL ENGINEERING TECHNOLOGY – ARCHITECTURAL DRAFTING

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4206

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET121	Building Materials and Construction Methods	3		
CET122	Architectural Drafting I	3		
CET123	Architectural Drafting II	3	Co-CET121 and CET122	
CET234	Architectural CAD (REVIT 3D – BIM)	3	CET121 and CET122 and DET125	
DET125	Basic AutoCAD	3		
TOTAL CREDIT HOURS		15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CET122 Architectural Drafting I
DET125 Basic AutoCAD

Credit Hours

3
3
6

Pre- and Co-requisites

Second Semester

CET121 Building Materials and Construction Methods
CET123 Architectural Drafting II

3
3
6

Co-CET121 and CET122

Third Semester

CET234 Architectural CAD (REVIT 3D – BIM)

3
3

CET121 **and** CET122
and DET125

TOTAL CREDITS

15



CAREER ENHANCEMENT CERTIFICATE

CIVIL ENGINEERING TECHNOLOGY – CIVIL/SURVEYING

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4207

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET227	Surveying I	3	MTH125 or MTH135	
CET228	Surveying II	3	CET227	
CET236	Global Positioning System	3	CET227	
	TOTAL CREDIT HOURS	9		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CET227	Surveying I	<u>3</u> 3	MTH125 or MTH135

Second Semester

CET228	Surveying II	3	CET227

CET236	Global Positioning System	<u>3</u> 6	CET227

TOTAL CREDITS	9



CAREER ENHANCEMENT CERTIFICATE

CIVIL ENGINEERING TECHNOLOGY – CIVIL/SURVEYING DRAFTING

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4208

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET121	Building Materials and Construction Methods	3		
CET237	Interpreting Construction Documents	3		
DET125	Basic AutoCAD	3		
	TOTAL CREDIT HOURS	9		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
CET121	Building Materials and Construction Methods	3	
CET237	Interpreting Construction Documents	3	
DET125	Basic AutoCAD	<u>3</u>	
	TOTAL CREDITS	9	



CAREER ENHANCEMENT CERTIFICATE

CIVIL ENGINEERING TECHNOLOGY – CONSTRUCTION MATERIALS INSPECTION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4209

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET121	Building Materials and Construction Methods	3		
CET125	Soil Mechanics	3	(MTH125 or MTH135) and MET124	
CET222	Concrete and Asphalt Testing	3	(MTH125 or MTH135) and CET121	
	TOTAL CREDIT HOURS	9		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CET121 Building Materials and Construction Methods

Credit Hours

3

Pre- and Co-requisites

Second Semester

CET125 Soil Mechanics

3

(MTH125 or MTH135)
and MET124

CET222 Concrete and Asphalt Testing

3

(MTH125 or MTH135)
and CET121

6

TOTAL CREDITS

9



CAREER ENHANCEMENT CERTIFICATE

CIVIL ENGINEERING TECHNOLOGY – CONSTRUCTION TECHNICIAN

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4210

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET121	Building Materials and Construction Methods	3		
CET235	Construction Management, Job Cost and Safety	3	CET121 and ITD122	
CET237	Interpreting Construction Documents	3		
DET125	Basic AutoCAD	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
TOTAL CREDIT HOURS		15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
CET121	Building Materials and Construction Methods	3	
CET237	Interpreting Construction Documents	3	
DET125	Basic AutoCAD	3	
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		12	

Second Semester

CET235	Construction Management, Job Cost and Safety	<u>3</u>	CET121 and ITD122
		3	
TOTAL CREDITS		15	

^Based on SSC placement scores

 STARK STATE COLLEGE ESTABLISHED 1990 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE APPLIED INDUSTRIAL TECHNOLOGY – CAD/CAM SPECIALIST (COMPUTER-AIDED DRAFTING/COMPUTER-AIDED MACHINING) <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4316

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT122	Machine Tools	3		
IET223	Computer Numerical Control	4		
AIT137	CAD/CAM	4	AIT122 and IET223	
AIT225	Advanced CAD/CAM	4	AIT137	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

AIT122 Machine Tools

Credit Hours

3

IET223 Computer Numerical Control

$\frac{4}{7}$

Pre- and Co-requisites

Second Semester

AIT137 CAD/CAM

$\frac{4}{4}$

AIT122 **and** IET223

Third Semester

AIT225 Advanced CAD/CAM

$\frac{4}{4}$

AIT137

TOTAL CREDITS

15

	CAREER ENHANCEMENT CERTIFICATE APPLIED INDUSTRIAL TECHNOLOGY – INDUSTRIAL HYDRAULICS AND PNEUMATICS <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4317

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST125	Basic Pumps	3		
MST126	Pipefitting Principles and Applications	3		
MST135	Plumbing and Pipe Code Principles	3		
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MST125	Basic Pumps	3	
MST134	Hydraulic and Pneumatic Systems^	<u>6</u>	(MTH091 and MTH092)+ or Proficiency
		9	

Second Semester

MST126	Pipefitting Principles and Applications	3
MST135	Plumbing and Pipe Code Principles	<u>3</u>
		6
	TOTAL CREDITS	15

+Minimum grade of "B" required.



CAREER ENHANCEMENT CERTIFICATE

APPLIED INDUSTRIAL TECHNOLOGY – MECHANICAL DRIVE SYSTEMS

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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4318

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST221	Mechanical Drive Components	3		
MST125	Basic Pumps	3		
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency	
TOTAL CREDIT HOURS		14		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

MST121	Blueprint Reading	2	
MST125	Basic Pumps	3	
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
MST221	Mechanical Drive Components	3	
TOTAL CREDITS		14	

+Minimum grade of "B" required

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE APPLIED INDUSTRIAL TECHNOLOGY – PRECISION MACHINING AND CNC PROGRAMMING <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4319

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT122	Machine Tools	3		
AIT123	Advanced Machine Tools	4	AIT122	
IET223	Computer Numerical Control	4		
	TOTAL CREDIT HOURS	11		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

AIT122 Machine Tools

Credit Hours

3

IET223 Computer Numerical Control

4
7

Pre- and Co-requisites

Second Semester

AIT123 Advanced Machine Tools

4
4

AIT122

TOTAL CREDITS

11

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE APPLIED INDUSTRIAL TECHNOLOGY – WELDING TECHNOLOGY AWS* CERTIFICATION EXAM PREPARATION <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4320

Engineering Technologies/Information Technologies Division

Industrial Technology Department

GENERAL MIG, TIG, ALUMINUM, AND OXYFUEL WELDING

(GENERAL AWS D1.1 EXAM PREP)

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST127	Principles of Welding♦	3	Co-MST128	
MST128	Welding Lab♦	3	Co-MST127	
	TOTAL CREDIT HOURS	6		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

*AWS stands for *American Welding Society*

♦AWS testing available at applicable course completion

	CAREER ENHANCEMENT CERTIFICATE APPLIED INDUSTRIAL TECHNOLOGY – 3G WELDING CERTIFICATION EXAM PREPARATION <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4321

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Lab	3	Co-MST127	
MST136	3G Welding Certification Exam Preparatory#♦	2	MST127 and MST128	
	TOTAL CREDIT HOURS	8		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Lab	<u>3</u> 6	Co-MST127

Second Semester

MST136	3G Welding Certification Exam Preparatory#♦	<u>2</u> 2	MST127 and MST128
TOTAL CREDITS		8	

#Prerequisite of satisfactory welding required prior to course enrollment

♦AWS testing available at applicable course completion

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE APPLIED INDUSTRIAL TECHNOLOGY – 6G WELDING CERTIFICATION EXAM PREPARATION <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4322

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Lab	3	Co-MST127	
MST137	6G Welding Certification Exam Preparatory#♦	5	MST127 and MST128	
	TOTAL CREDIT HOURS	11		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Lab	<u>3</u>	Co-MST127
		6	

Second Semester

MST137	6G Welding Certification Exam Preparatory#♦	<u>5</u>	MST127 and MST128
		5	
	TOTAL CREDITS	11	

#Prerequisite of satisfactory welding required prior to course enrollment

♦AWS testing available at applicable course completion



CAREER ENHANCEMENT CERTIFICATE

APPLIED INDUSTRIAL TECHNOLOGY – TITANIUM/STAINLESS STEEL WELDING

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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4324

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST138	Preparatory Gas Tungsten Arc Welding – Titanium / Stainless Steel #	5	MST127 and MST128	
MST139	Gas Tungsten Arc Welding-Titanium / Stainless Steel ♦	3	MST138	
	TOTAL CREDIT HOURS	8		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

MST138	Preparatory Gas Tungsten Arc Welding – Titanium/Stainless Steel #	5	MST127 and MST128

Second Semester

MST139	Gas Tungsten Arc Welding-Titanium/Stainless Steel ♦	3	MST138

TOTAL CREDITS	8

#Prerequisite of satisfactory welding required prior to course enrollment

♦AWS testing available at applicable course completion



CAREER ENHANCEMENT CERTIFICATE

NATURAL GAS AND OIL TECHNOLOGY SHALENET C1

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

4327

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
COM122	Interpersonal Communication	3		
ENV121	Regulations and Compliance	3		
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
MST221	Mechanical Drive Components	3		
PET101	Introduction to the Petroleum Industry	3		
PET102	Introduction to Supervisory Control and Data Acquisition SCADA	2		
	TOTAL CREDIT HOURS	18		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
COM122	Interpersonal Communication	3	
ENV121	Regulations and Compliance	3	
EST230	Electrical Circuits and Devices [^]	4	(MTH093 and MTH094)+ or Proficiency
MST221	Mechanical Drive Components	3	
PET101	Introduction to the Petroleum Industry	3	
PET102	Introduction to Supervisory Control and Data Acquisition SCADA	2	
	TOTAL CREDITS	18	

[^]Based on SSC placement scores

⁺Minimum grade of "B" required



CAREER ENHANCEMENT CERTIFICATE PETROLEUM BASIC INDUSTRIAL MAINTENANCE CORE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

4328

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT134	Predictive and Preventive Maintenance I	3	MST125 and MST221	
AIT222	Predictive and Preventive Maintenance II	3	AIT134	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency	
MST121	Blueprint Reading	2		
MST125	Basic Pumps	3		
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
TOTAL CREDIT HOURS		24		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
MST125	Basic Pumps	3	
MST221	Mechanical Drive Components	<u>3</u>	
		10	

Second Semester

AIT134	Predictive and Preventive Maintenance I	3	MST125 and MST221
MST121	Blueprint Reading	2	
MST134	Hydraulic and Pneumatic Systems^	<u>6</u>	(MTH091 and MTH092)+ or Proficiency
		11	

Summer Semester

AIT222	Predictive and Preventive Maintenance II	<u>3</u>	AIT134
		3	
TOTAL CREDITS		24	

^Based on SSC placement scores

+Minimum grade of "B" required

 	CAREER ENHANCEMENT CERTIFICATE PETROLEUM BASIC INDUSTRIAL PROCESS CONTROLS <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4329

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency	
AIT139	Introduction to Robotics	2		
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
EET227	PLCs and Industrial Controls I	3	EET120 or EST230
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
AIT139	Introduction to Robotics	<u>2</u> 9	

Second Semester

EET228	PLCs and Industrial Controls II	<u>3</u> 3	EET227
TOTAL CREDITS		12	

^Based on SSC placement scores

+Minimum grade of "B" required

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE OIL AND GAS TECHNOLOGY – PETROLEUM BASIC INDUSTRIAL PROCESS OPERATION CORE <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4330

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency	
MST221	Mechanical Drive Components	3		
	TOTAL CREDIT HOURS	11		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

MST121	Blueprint Reading	2	
MST134	Hydraulic and Pneumatic Systems^	6	(MTH091 and MTH092)+ or Proficiency
MST221	Mechanical Drive Components	<u>3</u>	
	TOTAL CREDITS	11	

^Based on SSC placement scores

+Minimum grade of "B" required.



CAREER ENHANCEMENT CERTIFICATE

OIL AND GAS TECHNOLOGY – RIGGING OIL AND GAS INDUSTRY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

4331

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT124	Principles of Rigging	2		
ENV221	OSHA 40-Hour HAZWOPER	2		
MST121	Blueprint Reading	2		
	TOTAL CREDIT HOURS	6		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
AIT124	Principles of Rigging	2	
ENV221	OSHA 40-Hour HAZWOPER	2	
MST121	Blueprint Reading	<u>2</u>	
	TOTAL CREDITS	6	



CAREER ENHANCEMENT CERTIFICATE

ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – SAFETY – HEAVY INDUSTRY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

4332

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV121	Regulations and Compliance	3		
ENV123	OSHA 10-Hour General Industry Safety	1		
ENV124	Transportation Hazardous Materials Training	1		
ENV169	Radiation Safety	2		
ENV221	OSHA 40-Hour HAZWOPER	2		
ENV228	Health and Safety	3	ENV121	
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

ENV121	Regulations and Compliance
ENV123	OSHA 10-Hour General Industry Safety
ENV124	Transportation Hazardous Materials Training
ENV169	Radiation Safety
ENV221	OSHA 40-Hour HAZWOPER

Credit Hours

3
1
1
2
2
9

Pre- and Co-requisites

Second Semester

ENV228	Health and Safety

3
3

ENV121

TOTAL CREDITS

12



CAREER ENHANCEMENT CERTIFICATE

OIL AND GAS TECHNOLOGY – WELDING TECHNOLOGY FOR GAS & OIL PRODUCTION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4333

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MST121	Blueprint Reading	2		
MST126	Pipefitting Principles and Applications	3		
MST127	Principles of Welding	3	Co-MST128	
MST128	Welding Lab	3	Co-MST127	
MST136	3G Welding Certification Exam Preparatory #♦	2	MST127 and MST128	
MST137	6G Welding Certification Exam Preparatory #♦	5	MST127 and MST128	
	TOTAL CREDIT HOURS	18		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MST121	Blueprint Reading	2	
MST126	Pipefitting Principles and Applications	3	
MST127	Principles of Welding	3	Co-MST128
MST128	Welding Lab	3	Co-MST127
		11	

Second Semester

MST136	3G Welding Certification Exam Preparatory #♦	2	MST127 and MST128
MST137	6G Welding Certification Exam Preparatory #♦	5	MST127 and MST128
		7	

TOTAL CREDITS

18

#Prerequisite of satisfactory welding required prior to course enrollment.

♦AWS testing available at applicable course completion.



CAREER ENHANCEMENT CERTIFICATE

OIL AND GAS TECHNOLOGY – LEASE OPERATOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

4334

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PET131	Corrosion Basics	3		
PET132	Petroleum Instrumentation	3		
PET141	Oil and Gas Lease Operation	3		
PET142	Artificial Lift	3		
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

PET131	Corrosion Basics	3	
PET132	Petroleum Instrumentation	3	
PET141	Oil and Gas Lease Operation	3	
PET142	Artificial Lift	<u>3</u>	
	TOTAL CREDITS	12	



CAREER ENHANCEMENT CERTIFICATE

APPLIED INDUSTRIAL TECHNOLOGY – BASIC INDUSTRIAL MAINTENANCE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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4407

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MTH107	Industrial Math [^]	3	(MTH091 and MTH092)+ or Proficiency	
EST230	Electrical Circuits & Devices [^]	4	(MTH093 and MTH094)+ or Proficiency	
MST121	Blueprint Reading	2		
MST134	Hydraulic and Pneumatic Systems [^]	6	(MTH091 and MTH092)+ or Proficiency	
TOTAL CREDIT HOURS		15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MTH107	Industrial Math [^]	3	(MTH091 and MTH092)+ or Proficiency
EST230	Electrical Circuits & Devices [^]	4	(MTH093 and MTH094)+ or Proficiency
MST121	Blueprint Reading	2	
MST134	Hydraulic and Pneumatic Systems [^]	<u>6</u>	(MTH091 and MTH092)+ or Proficiency
TOTAL CREDITS		15	

[^]Based on SSC placement scores

+Minimum grade of "B" required.

	CAREER ENHANCEMENT CERTIFICATE ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY – ELECTRICAL/ELECTRONIC TROUBLESHOOTING <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4408

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
	TOTAL CREDIT HOURS	17		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

MTH135 Precalculus[^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.

Credit Hours

5

Pre- and Co-requisites

(MTH093 and MTH094)++
or Proficiency

EET120 DC Circuit Analysis

4

Pre- or Co-MTH125 **or**
Pre- or Co-MTH135

9

Second Semester

EET122 AC Circuit Analysis

4

(Pre- or Co-MTH130 **or**
Pre- or Co-MTH135)
and EET120

EET123 Electronic Devices & Circuits

4

EET120 **and** Pre- or Co-EET122

8

TOTAL CREDITS

17

[^]Based on SSC placement scores

++Minimum grade of "C" required



CAREER ENHANCEMENT CERTIFICATE

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY – INDUSTRIAL CONTROLS

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

4409

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET126	Electrical Machines	4	Co-EET122	
EET227	PLCs and Industrial Controls I	3	EET120 or EST230	
EET228	PLCs and Industrial Controls II	3	EET227	
TOTAL CREDIT HOURS		18		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

EET120 DC Circuit Analysis

Credit Hours

4

4

Pre- and Co-requisites

Pre- or Co-MTH125 **or**
Pre- or Co-MTH135

Second Semester

EET122 AC Circuit Analysis

4

(Pre- or Co-MTH130 **or**
Pre- or Co-MTH135)
and EET120

EET126 Electrical Machines

4

Co-EET122

EET227 PLCs and Industrial Controls I

3
11

EET120 **or** EST230

Third Semester

EET228 PLCs and Industrial Controls II

3

EET227

TOTAL CREDITS

18



CAREER ENHANCEMENT CERTIFICATE

ELECTRICAL/ELECTRONIC ENGINEERING TECHNOLOGY – INDUSTRIAL ELECTRICITY AND ELECTRONICS

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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division

Engineering Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135	
EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120	
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122	
EET232	Industrial Electronics	4	EET123	
EET128	NEC and Electrical Systems Design	2	EET122	
TOTAL CREDIT HOURS		23		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency

EET120	DC Circuit Analysis	4	Pre- or Co-MTH125 or Pre- or Co-MTH135
		9	

Second Semester

EET122	AC Circuit Analysis	4	(Pre- or Co-MTH130 or Pre- or Co-MTH135) and EET120
EET123	Electronic Devices and Circuits	4	EET120 and Pre- or Co-EET122
		8	

Third Semester

EET232	Industrial Electronics	4	EET123
EET128	NEC and Electrical Systems Design	2	EET122
		6	

TOTAL CREDITS	23

[^]Based on SSC placement scores
⁺⁺Minimum grade of “C” required

	CAREER ENHANCEMENT CERTIFICATE ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – BASICS OF SUSTAINABLE/ALTERNATIVE ENERGY TECHNOLOGIES (Solar, Wind, Fuel, Biomass) <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4452

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AET121	Sustainable/Alternative Energy Sources	3		
AET122	Analysis/Applications of Sustainable Alternative Energy	3	AET121	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
	TOTAL CREDIT HOURS	14		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

AET121	Sustainable/Alternative Energy Sources	3	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)+ or Proficiency
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
		11	

Second Semester

AET122	Analysis/Applications of Sustainable Alternative Energy	3	AET121
		3	
	TOTAL CREDITS	14	

^Based on SSC placement scores

+Minimum grade of "B" required

++Minimum grade of "C" required

 STARK STATE COLLEGE ESTABLISHED 1990 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – ENVIRONMENTAL REMEDIATION TECHNICIAN <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4453

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV121	Regulations and Compliance	3		
ENV124	Transportation Hazardous Materials Training	1		
ENV164	Sustainable Green Building Technology	3		
ENV165	OSHA 10-Hour Construction Safety	1		
ENV169	Radiation Safety	2		
ENV221	OSHA 40-Hour HAZWOPER	2		
ENV228	Health and Safety	3	ENV121	
ENG124	College Composition^	3	ENG011 or Proficiency	
ELECTIVE: Select one (1) course below.				
PHL122	Ethics	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
	TOTAL CREDIT HOURS	21		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ENV121	Regulations and Compliance	3	
ENV124	Transportation Hazardous Materials Training	1	
ENV164	Sustainable Green Building Technology	3	
ENV165	OSHA 10-Hour Construction Safety	1	
ENG124	College Composition^	3	ENG011 or Proficiency
		11	

Second Semester

ENV169	Radiation Safety	2	
ENV221	OSHA 40-Hour HAZWOPER	2	
ENV228	Health and Safety	3	ENV121
<i>Elective¹</i>		3	<i>Check for prerequisites</i>
		10	
	TOTAL CREDITS	21	

^Based on SSC placement scores

¹Electives: PHL122, PSY121, SOC121



CAREER ENHANCEMENT CERTIFICATE

ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – OSHA 40-HOUR HAZWOPER

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4454

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV121	Regulations and Compliance	3		
ENV221	OSHA 40-Hour HAZWOPER	2		
	TOTAL CREDIT HOURS	5		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

ENV121 Regulations and Compliance

3

ENV221 OSHA 40-Hour HAZWOPER

2

TOTAL CREDITS

5



CAREER ENHANCEMENT CERTIFICATE

OIL AND GAS TECHNOLOGY – COMMERCIAL DRIVER'S LICENSE (CDL)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

4460

Engineering Technologies/Information Technologies Division

Oil and Gas Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CDL121	Commercial Driver's License Class A – Safe Operation and Control*	5	Co-CDL122 and Co-CDL123	
CDL122	Commercial Driver's License Class A – Advanced Operations and Maintenance	6	Co-CDL121 and Co-CDL123	
CDL123	Commercial Driver's License Class A – Behind the Wheel Street	2	Co-CDL121 and Co-CDL122	
TOTAL CREDIT HOURS		13		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
CDL121	Commercial Driver's License Class A – Safe Operation and Control*	5	Co-CDL122 and Co-CDL123
CDL122	Commercial Driver's License Class A – Advanced Operations and Maintenance	6	Co-CDL121 and Co-CDL123
CDL123	Commercial Driver's License Class A – Behind the Wheel Street	<u>2</u>	Co-CDL121 and Co-CDL122
TOTAL CREDITS		13	

*Participation in CDL121 requires a valid Ohio driver's license with 2 years' driving experience. Must be 18 years of age and show proof of citizenship. Must meet Department of Transportation (DOT) vision and physical requirements and pass the DOT drug screen. **(Cost is \$4,200.)**

**Students must pass the Ohio CDL Class A Driver's License examination to receive their Class A CDL.
The examination is administered at the end of CDL123.**

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE ENVIRONMENTAL HEALTH AND SAFETY – DEPARTMENT OF TRANSPORTATION (DOT) SAFETY CERTIFICATE <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4461

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV121	Regulations and Compliance	3		
ENV124	Transportation Hazardous Materials Training	1		
	TOTAL CREDIT HOURS	4		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ENV121	Regulations and Compliance	3	
ENV124	Transportation Hazardous Materials Training	<u>1</u>	
	TOTAL CREDITS	4	

	CAREER ENHANCEMENT CERTIFICATE HEATING, VENTILATION, AIR CONDITIONING, & REFRIGERATION TECHNOLOGY – COMMERCIAL REFRIGERATION <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4502

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC234	HVAC Electrical Systems and Applications^	3	(MTH093 and MTH094)++ or Proficiency	
HVC235	Refrigeration	3	HVC122	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
	TOTAL CREDIT HOURS	10		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
HVC234	HVAC Electrical Systems and Applications^	3	(MTH093 and MTH094)++ or Proficiency
HVC235	Refrigeration	3	HVC122
MTH125	College Algebra^	<u>4</u>	(MTH093 and MTH094)++ or Proficiency
	TOTAL CREDITS	10	

^Based on SSC placement scores

++Minimum grade of "C" required

	CAREER ENHANCEMENT CERTIFICATE HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY – HVACR DESIGN AND APPLICATION TECHNICIAN <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4503

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CET121	Building Materials and Construction Methods	3		
HVC222	HVAC Design and Application	3	HVC122	
HVC232	Advanced HVAC Applications	3	HVC222 and HVC227	
HVC235	Refrigeration	3	HVC122	
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CET121 Building Materials and Construction Methods

3

HVC222 HVAC Design and Application

3

HVC122

HVC235 Refrigeration

3

HVC122

9

Second Semester

HVC232 Advanced HVAC Applications

3

HVC222 **and** HVC227

3

TOTAL CREDITS

12

	CAREER ENHANCEMENT CERTIFICATE HEATING, VENTILATION, AIR CONDITIONING AND REFRIGERATION TECHNOLOGY - HVACR ELECTRICAL SYSTEMS <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4504

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC234	HVAC Electrical Systems and Applications^	3	(MTH093 and MTH094)++ or Proficiency	
HVC236	Advanced HVAC Electrical Applications	3	HVC234	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
TOTAL CREDIT HOURS		10		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

HVC234	HVAC Electrical Systems and Applications^	3	(MTH093 and MTH094)++ or Proficiency

MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency

7

Second Semester

HVC236	Advanced HVAC Electrical Applications	3 3	HVC234

TOTAL CREDITS	10

^Based on SSC placement scores

++Minimum grade of "C" required

	CAREER ENHANCEMENT CERTIFICATE HEATING, VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY – HVACR TECHNICIAN (LEVEL 1) <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4505

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC121	HVAC Principles I	3		
HVC122	HVAC Principles II	3	Co-HVC121	
HVC227	HVAC Field Installation Techniques and Procedures	4	Co-HVC122	
HVC234	HVAC Electrical Systems and Applications^	3	(MTH093 and MTH094)++ or Proficiency	
	TOTAL CREDIT HOURS	13		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
HVC121	HVAC Principles I	3	
HVC122	HVAC Principles II	3	Co-HVC121
HVC227	HVAC Field Installation Techniques and Procedures	4	Co-HVC122
HVC234	HVAC Electrical Systems and Applications^	<u>3</u>	(MTH093 and MTH094)++ or Proficiency
	TOTAL CREDITS	13	

^Based on SSC placement scores

++Minimum grade of "C" required

	CAREER ENHANCEMENT CERTIFICATE HEATING VENTILATION, AIR CONDITIONING, AND REFRIGERATION TECHNOLOGY – HVACR TECHNICIAN (LEVEL II) <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 4506

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HVC222	HVAC Design and Application	3	HVC122	
HVC223	HVAC System Operation and Troubleshooting – Heating	3	HVC122	
HVC224	HVAC System Operation and Troubleshooting – Cooling	3	HVC122	
MST121	Blueprint Reading	2		
MST126	Pipefitting Principles and Applications	3		
	TOTAL CREDIT HOURS	14		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
HVC222	HVAC Design and Application	3	HVC122
MST121	Blueprint Reading	2	
MST126	Pipefitting Principles and Applications	<u>3</u>	
		8	
<u>Second Semester</u>			
HVC223	HVAC System Operation and Troubleshooting – Heating	3	HVC122
HVC224	HVAC System Operation and Troubleshooting – Cooling	<u>3</u>	HVC122
		6	
	TOTAL CREDITS	14	



CAREER ENHANCEMENT CERTIFICATE

APPLIED INDUSTRIAL TECHNOLOGY – BASIC ROBOTICS

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4553

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AIT139	Introduction to Robotics	2		
EST230	Electrical Circuits & Devices^	4	(MTH093 and MTH094)+ or Proficiency	
MST221	Mechanical Drive Components	3		
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
TOTAL CREDIT HOURS		12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
EST230	Electrical Circuits & Devices^	4	(MTH093 and MTH094)+ or Proficiency
AIT139	Introduction to Robotics	2	
MST221	Mechanical Drive Components	<u>3</u>	
TOTAL CREDITS		12	

^Based on SSC placement scores

+Minimum grade of "B" required



CAREER ENHANCEMENT CERTIFICATE

APPLIED INDUSTRIAL TECHNOLOGY – AUTOMATION AND ROBOTICS SPECIALIST

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

4554

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
EET120	DC Circuit Analysis	4	Pre- or Co-MTH135 or Pre- or Co-MTH125	
AIT139	Introduction to Robotics	2		
AIT220	Industrial Robotics*	4	AIT139	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
EET120	DC Circuit Analysis	4	Pre- or Co-MTH135 or Pre- or Co-MTH125
AIT139	Introduction to Robotics	<u>2</u>	
		11	

Second Semester

AIT220	Industrial Robotics*	<u>4</u> 4	AIT139
	TOTAL CREDITS	15	

[^]Based on SSC placement scores.

++Minimum grade of “C” required.

*FANUC Automation and Robotics certification will be awarded after successfully completing AIT220.

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – GREEN TECHNOLOGY ESSENTIALS <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4567

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO126	Science, Energy and the Environment	4		
ENV164	Sustainable Green Building Technology	3		
	TOTAL CREDIT HOURS	7		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

BIO126 Science, Energy and the Environment

4

ENV164 Sustainable Green Building Technology

3

TOTAL CREDITS

7

 MAP MY ACADEMIC PLAN	CAREER ENHANCEMENT CERTIFICATE ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – BASIC ENVIRONMENTAL TECHNICIAN <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4602

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV123	OSHA 10-Hour General Industry Safety	1		
ENV124	Transportation Hazardous Materials Training	1		
ENV169	Radiation Safety	2		
ENV221	OSHA 40-Hour HAZWOPER	2		
	TOTAL CREDIT HOURS	6		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ENV123	OSHA 10-Hour General Industry Safety	1	
ENV124	Transportation Hazardous Materials Training	1	
ENV169	Radiation Safety	2	
ENV221	OSHA 40-Hour HAZWOPER	2	
	TOTAL CREDITS	6	

	CAREER ENHANCEMENT CERTIFICATE ENVIRONMENTAL, HEALTH AND SAFETY TECHNOLOGY – ENVIRONMENTAL TECHNICIAN SUPERVISOR <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015
		4607

Engineering Technologies/Information Technologies Division

Industrial Technology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENV121	Regulations and Compliance	3		
ENV124	Transportation Hazardous Materials Training	1		
ENV169	Radiation Safety	2		
ENV221	OSHA 40-Hour HAZWOPER	2		
ENV231	OSHA 30-Hour General Industry	2		
	TOTAL CREDIT HOURS	10		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ENV121	Regulations and Compliance	3	
ENV124	Transportation Hazardous Materials Training	1	
ENV169	Radiation Safety	2	
ENV221	OSHA 40-Hour HAZWOPER	2	
ENV231	OSHA 30-Hour General Industry	2	
	TOTAL CREDITS	10	



HEALTH AND HUMAN SERVICES

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED SCIENCE HUMAN AND SOCIAL SERVICES

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

1000

Health and Human Services Division

Human Services Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SWK121	Introduction to Social Welfare++^	3	IDS102 or Proficiency	
SWK124	Methods in Practice I++	3	SWK121	
SWK130	Methods in Practice II++	3	SWK124	
SWK125	Substance Abuse^	3	IDS102 or Proficiency	
SWK126	Human Behavior in the Social Environment++^	3	IDS102 or Proficiency	
SWK127	Group Processes++	3		
GER121	Introduction to Gerontology	3		
SWK224	Poverty in the U.S.++	3	SWK121 and ENG124	
SWK225	Victimization and Crisis Intervention	3	ENG124	
SWK231	Human and Social Services Practicum and Seminar++	3	SWK224 and SWK130	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
SOC121	Sociology^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
BUS122	Basic Economics ^	3	IDS102 or Proficiency	
PSC121	Political Science	3		
SOC225	Cultural Diversity++	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
COM121	Effective Speaking	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH108 or	Explorations in Modern Mathematics^	3 or	(MTH091 and MTH092)+ or Proficiency	
MTH124	Statistics^Ω	3	MTH093++ or Proficiency	
BIO127	Human Biology	4		
Total		32		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

FULL-TIME STUDENT ADVISING NOTESAcademic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester.</i>
SWK121	Introduction to Social Welfare++^	3	IDS102 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
SOC121	Sociology^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
		16	
<u>Second Semester</u>			
SWK124	Methods in Practice I++	3	SWK121
SWK224	Poverty in the U.S.++	3	SWK121 and ENG124
PSY121	General Psychology^	3	IDS102 or Proficiency
SOC225	Cultural Diversity++	3	
BIO127	Human Biology	4	
		16	
<u>Third Semester</u>			
SWK130	Methods in Practice II++	3	SWK124
SWK126	Human Behavior in the Social Environment++^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or
or	or	or	Proficiency
MTH124	Statistics^Ω	3	MTH093++ or Proficiency
SWK125	Substance Abuse^	3	IDS102 or Proficiency
SWK225	Victimization and Crisis Intervention	3	ENG124
		15	
<u>Fourth Semester</u>			
PSC121	Political Science	3	
BUS122	Basic Economics^	3	IDS102 or Proficiency
SWK231	Human and Social Services Practicum and Seminar++	3	SWK224 and SWK130
GER121	Introduction to Gerontology	3	
SWK127	Group Processes++	3	
		15	
	TOTAL CREDITS	62	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.



ASSOCIATE OF APPLIED SCIENCE

HUMAN AND SOCIAL SERVICES – GERONTOLOGY MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

1003

Health and Human Services Division

Human Services Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SWK121	Introduction to Social Welfare++^	3	IDS102 or Proficiency	
SWK124	Methods in Practice I++	3	SWK121	
SWK130	Methods in Practice II++	3	SWK124	
SWK125	Substance Abuse^	3	IDS102 or Proficiency	
SWK126	Human Behavior in the Social Environment++^	3	IDS102 or Proficiency	
GER121	Introduction to Gerontology	3		
SWK224	Poverty in the U.S.++	3	SWK121 and ENG124	
SWK231	Human and Social Services Practicum and Seminar++	3	SWK224 and SWK130	
SWK230	Social Services for the Elderly++	3	ENG124	
GER122	Psychosocial Aspects of Aging++	3		
	Total	30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
SOC121	Sociology^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSC121	Political Science	3		
BUS122	Basic Economics^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity++	3		
ENG124	College Composition ^	3	ENG011 or Proficiency	
COM121	Effective Speaking	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH108 or	Explorations in Modern Mathematics^ or	3 or	(MTH091 and MTH092)+ or Proficiency	
MTH124	Statistics^Ω	3	MTH093++ or Proficiency	
BIO127	Human Biology	4		
	Total	32		
	TOTAL CREDIT HOURS	62		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of “B” required.

++Minimum grade of “C” required.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

1516 Catalog Effective Summer 2015	HUMAN AND SOCIAL SERVICES – GERONTOLOGY MAJOR	1003

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
SWK121	Introduction to Social Welfare++^	3	IDS102 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
SOC121	Sociology^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
GER121	Introduction to Gerontology	<u>3</u>	
		16	
<u>Second Semester</u>			
SWK124	Methods in Practice I++	3	SWK121
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
SWK224	Poverty in the U.S.++	3	SWK121 and ENG124
PSY121	General Psychology^	3	IDS102 or Proficiency
BIO127	Human Biology	<u>4</u>	
		16	
<u>Third Semester</u>			
SWK130	Methods in Practice II++	3	SWK124
SWK126	Human Behavior in the Social Environment++^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or
or	or	or	Proficiency
MTH124	Statistics^Ω	3	MTH093++ or Proficiency
SWK125	Substance Abuse^	3	IDS102 or Proficiency
SOC225	Cultural Diversity++	<u>3</u>	
		15	
<u>Fourth Semester</u>			
PSC121	Political Science	3	
BUS122	Basic Economics^	3	IDS102 or Proficiency
SWK231	Human and Social Services Practicum and Seminar ++	3	SWK224 and SWK130
GER122	Psychosocial Aspects of Aging++	3	
SWK230	Social Services for the Elderly++	<u>3</u>	ENG124
		15	
	TOTAL CREDITS	62	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.



ASSOCIATE OF APPLIED SCIENCE

HUMAN AND SOCIAL SERVICES – CHEMICAL DEPENDENCY MAJOR

1516 Catalog
Effective Summer 2015

1004

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Health and Human Services Division

Human Services Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SWK121	Introduction to Social Welfare++^	3	IDS102 or Proficiency	
CDC121	Chemical Dependency: Assessment and Treatment Planning++	3	SWK121 and SWK125	
CDC122	Fundamentals of Chemical Dependency Practice I++	3	SWK125	
CDC222	Fundamentals of Chemical Dependency Practice II++	3	CDC122	
SWK125	Substance Abuse++^	3	IDS102 or Proficiency	
SWK126	Human Behavior in the Social Environment++^	3	IDS102 or Proficiency	
CDC221	Chemical Dependency and the Family++	3	SWK125	
SWK224	Poverty in the U.S.++	3	SWK121 and ENG124	
SWK225	Victimization and Crisis Intervention	3	ENG124	
CDC231	Chemical Dependency Practicum and Seminar++	3	SWK224 and CDC222	
CDC223	Chemical Dependency and Prevention++	1	SWK125	
CDC224	Chemical Dependency and Ethics++	1	SWK125	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
SOC121	Sociology^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSC121	Political Science	3		
BUS122	Basic Economics^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity++	3		
ENG124	College Composition ^	3	ENG011 or Proficiency	
COM121	Effective Speaking	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH108 or	Explorations in Modern Mathematics^ or	3 or	(MTH091 and MTH092)+ or Proficiency	
MTH124	Statistics^Ω	3	MTH093++ or Proficiency	
BIO127	Human Biology	4		
Total		32		
TOTAL CREDIT HOURS		64		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

1516 Catalog Effective Summer 2015	HUMAN AND SOCIAL SERVICES – CHEMICAL DEPENDENCY MAJOR	1004

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
SWK121	Introduction to Social Welfare++^	3	IDS102 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
SOC121	Sociology^	3	IDS102 or Proficiency
COM121	Effective Speaking	3	
SWK125	Substance Abuse++^	<u>3</u>	IDS102 or Proficiency
		16	
<u>Second Semester</u>			
CDC121	Chemical Dependency: Assessment and Treatment Planning++	3	SWK121 and SWK125
SWK224	Poverty in the U.S.++	3	SWK121 and ENG124
PSY121	General Psychology^	3	IDS102 or Proficiency
CDC122	Fundamentals of Chemical Dependency Practice I++	3	SWK125
CDC223	Chemical Dependency and Prevention++	1	SWK125
CDC224	Chemical Dependency and Ethics++	1	SWK125
PSC121	Political Science	<u>3</u>	
		17	
<u>Third Semester</u>			
CDC222	Fundamentals of Chemical Dependency Practice II++	3	CDC122
SWK126	Human Behavior in the Social Environment++^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or
or	or	or	Proficiency
MTH124	Statistics^Ω	3	MTH093++ or Proficiency
CDC221	Chemical Dependency and Family++	3	SWK125
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
SWK225	Victimization and Crisis Intervention	<u>3</u>	ENG124
		18	
<u>Fourth Semester</u>			
BUS122	Basic Economics^	3	IDS102 or Proficiency
CDC231	Chemical Dependency Practicum and Seminar++	3	SWK224 and CDC222
SOC225	Cultural Diversity++	3	
BIO127	Human Biology	<u>4</u>	
		13	
	TOTAL CREDITS	64	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.



ASSOCIATE OF APPLIED SCIENCE

HEALTH INFORMATION MANAGEMENT (Day Track)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

3050

Health and Human Services Division

Medical Technology Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HIT121	Health Data Management and Delivery Systems	4	Co-HIT123	
HIT124	Clinical Classification Systems I	4	HIT121 and Co-BIO124	
HIT122	Alternative Health Records and Registries	3	HIT121	
HIT221	Clinical Classification Systems II	3	HIT124 and BIO222	
HIT222	Healthcare Statistics and Research	3	HIT122 and HIT124 and Co-HIT224	
HIT223	HIM Supervision Concepts and Practices	3	HIT224	
HIT224	Quality Management in Healthcare	2	Co-HIT222	
HIT226	Professional Practice Experience I/Seminar I	2		
HIT227	Professional Practice Experience II/Seminar II	2		
HIT232	Healthcare Reimbursement Methodologies	2	HIT124	
HIT233	Clinical Classification Systems III	2	HIT124	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO123	Principles of Human Structure and Function (lab)▲#	5	BIO101 or Proficiency	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO222	Pharmacology	3	BIO122 or BIO123	
ENG124	College Composition^	3	ENG011 or Proficiency	
HIT123	Healthcare Legal and Ethical Issues*	2	HIT230 or Co-HIT121	
HIT229	Health Information Systems and Technology	3	(HIT224 and ITD122) or CIS126	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH105 or	Math for Allied Health^ Ω	3 or	(MTH091 and MTH092)+ or Proficiency	
MTH124 or	Statistics ^	3 or	MTH093++ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
	<i>Sociology or Psychology Elective^</i>	3	IDS102 or Proficiency	
Total		32-33		
TOTAL CREDIT HOURS		62-63		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school and those who prefer to refresh their knowledge of the material should complete the listed pre-requisites.

#BIO121 and BIO122 can be substituted for BIO123.

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

*Students in the Health Information Management major are required to take HIT121. HIT230 is required for all other majors. Application criteria requires a "B" or better in BIO101 or HS BIO, and (MTH091 and MTH092) or proficiency to apply to the Health Information Management program.

**Students are required to follow the program curriculum in effect when they begin
taking technical courses, not when students are accepted to the College or program.**

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

1516 Catalog Effective Summer 2015	HEALTH INFORMATION MANAGEMENT (Day Track)	3050

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years. **Health Information Management courses must be taken in the order listed below.**

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD 122	Computer Applications for Professionals^	3	ITD100 or Proficiency
HIT 121	Health Data Management and Delivery Systems	4	Co-HIT123
HIT 123	Health Care Legal and Ethical Issues*	2	HIT230 or Co-HIT121
BIO 123	Principles of Human Structure & Function (lab)▲#	5	BIO101 or Proficiency
BIO 125	Medical Terminology	<u>3</u>	
		18	
<u>Second Semester</u>			
HIT122	Alternative Health Records & Registries	3	HIT121
HIT 124	Clinical Classification Systems I	4	HIT121 and Co-BIO124
BIO 124	Human Diseases	3	BIO122 or BIO123
BIO 222	Pharmacology	<u>3</u>	BIO122 or BIO123
		13	
<u>Summer</u>			
ENG 124	College Composition^	3	ENG011 or Proficiency
MTH105	Math for Allied Health^ Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^	3	MTH093++ or Proficiency
or	or	or	
MTH125	College Algebra^	<u>4</u>	(MTH093 and MTH094)++
		6-7	or Proficiency
<u>Third Semester</u>			
HIT 221	Clinical Classification Systems II	3	HIT124 and BIO222
HIT 222	Healthcare Statistics and Research	3	HIT122 and HIT124 and Co-HIT224
HIT 224	Quality Management in Healthcare	2	Co-HIT222
HIT 226	Professional Practice Experience I/Seminar I	2	
HIT 232	Health Care Reimbursement Methodologies	<u>2</u>	HIT124
		12	
<u>Fourth Semester</u>			
HIT 223	HIM Supervision: Concepts and Practices	3	HIT224
HIT 227	Professional Practice Experience II/ Seminar II	2	
HIT 229	Health Information Systems and Technology	3	(HIT224 and ITD122) or CIS126
HIT 233	Clinical Classification Systems III	2	HIT124
<i>Sociology or Psychology Elective^</i>		<u>3</u>	IDS102 or Proficiency
		13	
TOTAL CREDITS		62-63	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school and those who prefer to refresh their knowledge of the material should complete the listed pre-requisites.

#BIO121 and BIO122 can be substituted for BIO123.

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

*Students in the Health Information Management major are required to take HIT121. HIT230 is required for all other majors. Application criteria requires a "B" or better in BIO101 or HS BIO, and (MTH091 and MTH092) or proficiency to apply to the Health Information Management program.

**Students are required to follow the program curriculum in effect when they begin
taking technical courses, not when students are accepted to the College or program.**

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ONE-YEAR CERTIFICATE

MEDICAL CODING CERTIFICATE PROGRAM (AFTERNOON/NIGHT TRACK)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

3055

Health and Human Services Division

Medical Technology Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HIT121	Health Data Management and Delivery Systems	4	Co-HIT123	
HIT123	Healthcare Legal and Ethical Issues*	2	HIT230 or Co-HIT121	
HIT124	Clinical Classification System I	4	HIT121 and Co-BIO124	
HIT221	Clinical Classification Systems II▲	3	BIO222 and HIT124	
HIT233	Clinical Classification Systems III▲	2	HIT124	
HIT231	Coding Professional Practice Experience/Seminar**▲	1	HIT124	
HIT232	Healthcare Reimbursement Methodologies	2	HIT124	
Total		18		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO222	Pharmacology	3	BIO122 or BIO123	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
Total		18		
TOTAL CREDIT HOURS		36		

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

#BIO121 and BIO122 may be substituted for BIO123

*Students in the Health Information Management major are required to take HIT121. HIT230 is required for all other majors.

**The coding professional practice experience is on campus in our virtual lab.

▲The summer semester courses are accelerated and the schedule is rigorous.

Application criteria require a “B” or better in HS BIO or BIO101 to apply to the MC program.

Minimum grade of “C” in all technical and non-technical courses in the program curriculum is required.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE MEDICAL CODING CERTIFICATE PROGRAM (AFTERNOON/NIGHT TRACK)	3055

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
HIT121	Health Data Management and Delivery Systems	4	Co-HIT123
HIT123	Healthcare Legal and Ethical Issues*	2	HIT230 or Co-HIT121
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency
BIO125	Medical Terminology	<u>3</u>	
		15	
<u>Second Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
HIT124	Clinical Classification System I	4	HIT121 and Co-BIO124
BIO124	Human Diseases	3	BIO122 or BIO123
BIO222	Pharmacology	3	BIO122 or BIO123
HIT232	Healthcare Reimbursement Methodologies	<u>2</u>	HIT124
		15	
<u>Summer</u>			
HIT221	Clinical Classification Systems II ▲	3	BIO222 and HIT124
HIT233	Clinical Classification Systems III ▲	2	HIT124
HIT231	Coding Professional Practice Experience/Seminar** ▲	<u>1</u>	HIT124
		6	
	TOTAL CREDITS	36	

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

#BIO121 and BIO122 may be substituted for BIO123

*Students in the Health Information Management major are required to take HIT121. HIT230 is required for all other majors.

**The coding professional practice experience is on campus in our virtual lab.

▲ The summer semester courses are accelerated and the schedule is rigorous.

Application criteria require a "B" or better in HS BIO or BIO101 to apply to the MC program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ASSOCIATE OF APPLIED SCIENCE

MEDICAL ASSISTING – Day Track

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

3100

Health and Human Services Division

Medical Technology Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MAT121	Medical Assisting I	5		
MAT122	Medical Assisting II	5	MAT121	
MAT123	Medical Assisting III	2	MAT122	
MAT221	Medical Laboratory Procedures for Medical Assisting	3	MAT122	
MAT222	Insurance for Medical Assisting	3	MAT122	
MAT223	Medical Office Procedures	4		
MAT224	Pharmacology/Administration of Medications	4	MAT122	
MAT226	Medical Office Management	3	MAT122	
MAT227	Medical Assisting Practicum	2	Co-MAT123	
MAT233	Medical Assisting Seminar	1	Co-MAT123	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
BIO101	Introduction to Anatomy & Physiology^	3	IDS102 or Proficiency	
BIO125	Medical Terminology	3		
COM122	Interpersonal Communications	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH105 or	Math for Allied Health^ Ω	3 or	(MTH091 and MTH092)+ or Proficiency	
MTH124 or	Statistics ^	3 or	MTH093++ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
NTR121	Basic Medical Nutrition^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
GER121	Introduction to Gerontology	3		
MAT124	Medical Law & Ethics	3		
	Elective*	3-4		
Total		34-36		
TOTAL CREDIT HOURS		66-68		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Requires a grade of "B" or better.

++Requires a grade of "C" or better.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in (MTH091 and MTH092) or proficiency, ENG011 or proficiency, and IDS102 or proficiency to apply to the MAT program.

***Choose from the following options: (MAT234 and MAT235), GER 122, Sociology offering, or Psychology offering. MAT234 requires MAT235 in order to apply for the phlebotomy certification exam. MAT235 requires an additional semester.**

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTESAcademic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BIO101	Introduction to Anatomy & Physiology^	3	IDS102 or Proficiency
BIO125	Medical Terminology	3	
MAT121	Medical Assisting I	5	
MAT223	Medical Office Procedures	<u>4</u>	
		16	
<u>Second Semester</u>			
GER121	Introduction to Gerontology	3	
MTH105	Math for Allied Health^ Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics ^	3	MTH093++ or Proficiency
or	or	or	
MTH125	College Algebra^	4	(MTH093 and MTH094)++
			or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
NTR121	Basic Medical Nutrition^	3	IDS102 or Proficiency
MAT122	Medical Assisting II	<u>5</u>	MAT121
		17-18	
<u>Third Semester (Summer)</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		6	
<u>Fourth Semester</u>			
MAT221	Medical Lab Procedures for Medical Assisting	3	MAT122
MAT222	Insurance for Medical Assisting	3	MAT122
MAT224	Pharmacology/Administration of Medications	4	MAT122
COM122	Interpersonal Communication	<u>3</u>	
		13	
<u>Fifth Semester</u>			
MAT123	Medical Assisting III	2	MAT122
MAT124	Medical Law & Ethics	3	
MAT226	Medical Office Management	3	MAT122
MAT227	Medical Assisting Practicum	2	Co-MAT123
MAT233	Medical Assisting Seminar	1	Co-MAT123
	<i>Elective*</i>	<u>3-4</u>	
		14-15	
	TOTAL CREDITS	66-68	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Requires a grade of "B" or better.

++Requires a grade of "C" or better.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

***Choose from the following options: (MAT234 and MAT235), GER 122, Sociology offering, or Psychology offering. MAT234 requires MAT235 in order to apply for the phlebotomy certification exam. MAT235 requires an additional semester.**

Application criteria requires a "B" or better in (MTH091 and MTH092) or proficiency, ENG011 or proficiency, and IDS102 or proficiency to apply to the MAT program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ASSOCIATE OF APPLIED SCIENCE

MEDICAL ASSISTING – Night Track

1516 Catalog
Effective Summer 2015

3100

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Health and Human Services Division

Medical Technology Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MAT121	Medical Assisting I	5		
MAT122	Medical Assisting II	5	MAT121	
MAT123	Medical Assisting III	2	MAT122	
MAT221	Medical Laboratory Procedures for Medical Assisting	3	MAT122	
MAT222	Insurance for Medical Assisting	3	MAT122	
MAT223	Medical Office Procedures	4		
MAT224	Pharmacology/Administration of Medications	4	MAT122	
MAT226	Medical Office Management	3	MAT122	
MAT227	Medical Assisting Practicum	2	Co-MAT123	
MAT233	Medical Assisting Seminar	1	Co-MAT123	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
BIO101	Introduction to Anatomy & Physiology^	3	IDS102 or Proficiency	
BIO125	Medical Terminology	3		
COM122	Interpersonal Communications	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH105 or MTH124 or MTH125	Math for Allied Health^ Ω or Statistics ^ or College Algebra^	3 or 3 or 4	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency (MTH093 and MTH094)++ or Proficiency	
NTR121	Basic Medical Nutrition^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
GER121	Introduction to Gerontology	3		
MAT124	Medical Law & Ethics	3		
	<i>Elective*</i>	3-4		
Total		34-36		
TOTAL CREDIT HOURS		66-68		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Requires a grade of "B" or better.

++Requires a grade of "C" or better.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in (MTH091 and MTH092) or proficiency, ENG011 or proficiency, and IDS102 or proficiency to apply to the MAT program.

***Choose from the following options: (MAT234 and MAT235), GER 122, Sociology offering, or Psychology offering. MAT234 requires MAT235 in order to apply for the phlebotomy certification exam. MAT235 requires an additional semester.**

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTESAcademic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BIO101	Introduction to Anatomy & Physiology^	3	IDS102 or Proficiency
BIO125	Medical Terminology	3	
MAT121	Medical Assisting I	5	
MAT223	Medical Office Procedures	<u>4</u>	
		16	
<u>Second Semester</u>			
GER121	Introduction to Gerontology	3	
MTH105	Math for Allied Health^ Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics ^	3	MTH093++ or Proficiency
or	or	or	
MTH125	College Algebra^	4	(MTH093 and MTH094)++
			or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
NTR121	Basic Medical Nutrition^	3	IDS102 or Proficiency
MAT122	Medical Assisting II	<u>5</u>	MAT121
		17-18	
<u>Third Semester (Summer)</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		6	
<u>Fourth Semester</u>			
MAT124	Medical Law & Ethics	3	
MAT221	Medical Lab Procedures for Medical Assisting	3	MAT122
MAT222	Insurance for Medical Assisting	3	MAT122
COM122	Interpersonal Communication	<u>3</u>	
		12	
<u>Fifth Semester</u>			
MAT123	Medical Assisting III	2	MAT122
MAT226	Medical Office Management	3	MAT122
MAT224	Pharmacology/Administration of Medications	4	MAT122
MAT227	Medical Assisting Practicum	2	Co-MAT123
MAT233	Medical Assisting Seminar	1	Co-MAT123
	<i>Elective*</i>	<u>3-4</u>	
		15-16	
	TOTAL CREDITS	66-68	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Requires a grade of "B" or better.

++Requires a grade of "C" or better.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

***Choose from the following options: (MAT234 and MAT235), GER 122, Sociology offering, or Psychology offering. MAT234 requires MAT235 in order to apply for the phlebotomy certification exam. MAT235 requires an additional semester.**

Application criteria requires a "B" or better in (MTH091 and MTH092) or proficiency, ENG011 or proficiency, and IDS102 or proficiency to apply to the MAT program.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ASSOCIATE OF APPLIED SCIENCE PHYSICAL THERAPIST ASSISTANT

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

3150

Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PTA121	Fundamentals of Physical Therapy	4		
PTA122	Musculoskeletal Anatomy	4	Co-BIO123 or Co-BIO122	
PTA123	Kinesiology	4	PHY101 and PTA122 and Co-PTA221	
PTA124	Measurement Procedures for the PTA	2	PTA123 and PTA221	
PTA125	Professional Clinical Practice for the PTA	1	PTA123 and PTA221	
PTA221	PTA Procedures I	5	PTA121 and PTA122 and Co-PTA123	
PTA223	PTA Procedures III	2	PTA224 and PTA225	
PTA224	PTA Procedures II Ortho	3	BIO124 and PTA124 and PTA125 and Co-PTA225 and Co-PTA228 and Co-PTA229	
PTA225	PTA Procedures II Neuro	3	BIO124 and PTA124 and PTA125 and Co-PTA224 and Co-PTA228 and Co-PTA229	
PTA227	Directed Practice III	3		
PTA228	Seminar I	2	PTA124 and PTA125 and Co-PTA224 and Co-PTA225 and Co-PTA229	
PTA229	Directed Practice I	3	PTA124 and PTA125 and Co-PTA224 and Co-PTA225 and Co-PTA228	
PTA230	Seminar II	1	PTA224 and PTA225 and PTA228 and PTA229	
PTA231	Directed Practice II	2	PTA229	
Total		39		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency	
BIO124	Human Diseases	3	BIO123 or BIO122	
BIO125	Medical Terminology	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH124	Statistics^*	3	MTH093++ or Proficiency	
OTA223	Life Span Development	5	ENG124	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
Total		32		
TOTAL CREDIT HOURS		71		

^Based on SSC placement scores.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

BIO121 and BIO122 can be substituted for BIO123

*MTH125 College Algebra may be substituted for MTH124 Statistics

Application criteria require a "B" or better in BIO101 or HS BIO, and (MTH093 and MTH094) or Proficiency to apply to the PTA program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
PTA121	Fundamentals of Physical Therapy	4	
PTA122	Musculoskeletal Anatomy	4	Co-BIO123 or Co-BIO122
BIO123	Principles of Human Structure and Function (lab)#	<u>5</u>	BIO101 or Proficiency
		17	
<u>Second Semester</u>			
MTH124	Statistics^*	3	MTH093++ or Proficiency
PTA123	Kinesiology	4	PHY101 and PTA122 and Co-PTA221
BIO124	Human Diseases	3	BIO123 or BIO122
BIO125	Medical Terminology	3	
PTA221	PTA Procedures I	<u>5</u>	PTA121 and PTA122 and Co-PTA123
		18	
<u>Third Semester</u>			
PSY121	General Psychology^	3	IDS102 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
PTA124	Measurement Procedures for the PTA	2	PTA123 and PTA221
PTA125	Professional Clinical Practice for the PTA	<u>1</u>	PTA123 and PTA221
		9	
<u>Fourth Semester</u>			
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency
PTA224	PTA Procedures II Ortho	3	BIO124 and PTA124 and PTA125 and Co- PTA225 and Co-PTA228 and Co-PTA229
PTA225	PTA Procedures II Neuro	3	BIO124 and PTA124 and PTA125 and Co-PTA224 and Co-PTA228 and Co-PTA229
OTA223	Life Span Development	5	ENG124
PTA229	Directed Practice I	3	PTA124 and PTA125 and Co-PTA224 and Co- PTA225 and Co-PTA228
PTA228	Seminar I	<u>2</u>	PTA124 and PTA125 and Co-PTA224 and Co-PTA225 and Co-PTA229
		19	
<u>Fifth Semester</u>			
PTA223	PTA Procedures III	2	PTA224 and PTA225
PTA227	Directed Practice III	3	
PTA230	Seminar II	1	PTA224 and PTA225 and PTA228 and PTA229
PTA231	Directed Practice II	<u>2</u>	PTA229
		8	
	TOTAL CREDITS	71	

^Based on SSC placement scores.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

BIO121 and BIO122 can be substituted for BIO123

*MTH125 College Algebra may be substituted for MTH124 Statistics

Application criteria require a "B" or better in BIO101 or HS BIO, and (MTH093 and MTH094) or Proficiency to apply to the PTA program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ASSOCIATE OF APPLIED SCIENCE

RESPIRATORY CARE

1516 Catalog
Effective Summer 2015

3200

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Health and Human Services Division

Respiratory Care/Medical Instrument Sterilization Dept.

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
RCT121	Introduction to Respiratory Care	3	Pre-BIO123 or Co-BIO123	
RCT122	Medical Gas Administration	3		
RCT124	Pharmacology for R.T.	2		
RCT123	Airway Management Procedures	3	RCT124	
RCT125	Clinical Practicum I/Seminar	3	RCT124	
RCT126	Critical Care	3	RCT129	
RCT128	Clinical Practicum II/Seminar	2	RCT125	
RCT224	Clinical Practicum III/Seminar	3	RCT 128	
RCT226	Advanced Respiratory Care Procedures Laboratory	1	RCT126	
RCT227	Neonatal/Pediatrics for Respiratory Care	3	RCT126	
RCT223	Patient Assessment and Monitoring	3	RCT220	
RCT225	Clinical Practicum IV/Seminar	5	RCT224	
TOTAL		34		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CHM121	General, Organic and Biological Chemistry I^	4	CHM101 or Proficiency	
ENG124	College Composition ^	3	ENG011 or Proficiency	
MTH124 or MTH125	Statistics^ or College Algebra^	3 or 4	MTH093++ or Proficiency (MTH093 and MTH094)++ or Proficiency	
BIO123	Principles of Human Structure & Function (lab)▲#	5	BIO101 or Proficiency	
BIO125	Medical Terminology	3		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
RCT129	Respiratory Diseases	3	RCT124	
RCT220	Cardiopulmonary A & P	3	RCT126	
	<i>Sociology or Psychology Elective^</i>	3	IDS102 or Proficiency	
Total		32-33		
TOTAL CREDIT HOURS		66-67		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++ Requires a grade of "C" or better.

BIO121 and BIO122 can be substituted for BIO123

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Application criteria require a "B" or better in BIO101 or HS BIO, CHM101 or HS Chemistry, and MTH093 and MTH094, or proficiency to apply to the RCT program.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Each student should make an appointment to see their advisor every semester before registering for classes. Please have your registration form completed, including the courses you wish to take, for this meeting.

Course Sequence

The semester-by-semester listing below gives the normal scheduling option for full-time associate degree students who plan to finish in two years. Some courses can be scheduled as beginning courses in other semesters depending upon course availability and advisor's recommendation. **Respiratory Care courses must be taken in the order listed below.**

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
RCT121	Introduction to Respiratory Care	3	Pre-BIO123 or Co-BIO123
RCT122	Medical Gas Administration	3	
RCT124	Pharmacology for R.T.	2	
BIO123	Principles of Human Structure & Function (lab)▲#	5	BIO101 or Proficiency
BIO125	Medical Terminology	<u>3</u>	
		17	
<u>Second Semester</u>			
CHM121	General, Organic and Biological Chemistry I^	4	CHM101 or Proficiency
RCT123	Airway Management Procedures	3	RCT124
RCT125	Clinical Practicum I/Seminar	3	RCT 124
MTH124	Statistics^	3	MTH093++ or Proficiency
or	or	or	
MTH125	College Algebra^	4	(MTH093 and MTH094)++
RCT129	Respiratory Diseases	<u>3</u>	or Proficiency
		16-17	RCT124
<u>Summer</u>			
RCT126	Critical Care	3	RCT129
RCT128	Clinical Practicum II/Seminar	2	RCT125
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		8	
<u>Third Semester</u>			
<i>Sociology or Psychology Elective^</i>		3	IDS102 or Proficiency
RCT220	Cardiopulmonary A&P	3	RCT126
RCT224	Clinical Practicum III/Seminar	3	RCT128
RCT226	Advanced Respiratory Care Procedures Laboratory	1	RCT126
RCT227	Neonatal/Pediatrics for Respiratory Care	<u>3</u>	RCT 126
		13	
<u>Fourth Semester</u>			
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123
			or BIO 141
RCT223	Patient Assessment and Monitoring	3	RCT220
RCT225	Clinical Practicum IV/Seminar	<u>5</u>	RCT224
		12	
TOTAL CREDITS		66-67	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++ Requires a grade of "C" or better.

BIO121 and BIO122 can be substituted for BIO123

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Application criteria require a "B" or better in BIO101 or HS BIO, CHM101 or HS Chemistry, and MTH093 and MTH094, or proficiency to apply to the RCT program.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required



ASSOCIATE OF APPLIED SCIENCE

OCCUPATIONAL THERAPY ASSISTANT

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

3250

Health and Human Services Division

Occupational Therapy Assistant Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
OTA121	Foundations of Occupational Therapy	3	Co-OTA122	
OTA122	Therapeutic Media	3	Co-OTA121	
OTA123	Psychosocial Aspects in OT	4	OTA121 and OTA122 and PSY121 and Co-OTA124 and Pre- or Co-PSY221	
OTA124	Psychosocial Clinical Experience	3	OTA121 and OTA122 and Co-OTA123	
OTA221	Developmental Aspects in OT	4	(BIO123 or BIO122) and OTA123 and OTA124 and Co-OTA222 and Pre- or Co- PTA226 and Pre- or Co- OTA223	
OTA222	Developmental Clinical Experience	3	(BIO123 or BIO122) and OTA123 and OTA124 and Co-OTA221 and Pre- or Co- PTA226 and Pre- or Co- OTA223	
OTA224	OT in Physical Dysfunction	4	OTA221 and OTA222 and Co-OTA225 and Pre- or Co-BIO124	
OTA225	Physical Dysfunction Clinical Experience	3	OTA222 and Co-OTA224 and OTA221	
OTA226	OTA Seminar	2	OTA224 and OTA225 and Co-OTA227 and Co-OTA228	
OTA227	Clinical Application I	3	OTA224 and OTA225 and Co-OTA226 and Co-OTA228	
OTA228	Clinical Application II	3	OTA224 and OTA225 and Co-OTA226 and Co-OTA227	
Total		35		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO123	Principles of Human Structure & Function (lab)#	5	BIO101+ or Proficiency	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH105	Math for Allied Health^ Ω	3	(MTH091 and MTH092)+ or Proficiency	
OTA223	Life Span Development	5	ENG124	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY221	Abnormal Psychology	3	PSY121 and Co-OTA123	
PTA226	Functional Anatomy	4	BIO122 or BIO123	
SOC121	Sociology^	3	IDS102 or Proficiency	
Total		35		
TOTAL CREDIT HOURS		70		

See reverse for footnotes

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
PSY121	General Psychology [^]	3	IDS102 or Proficiency
OTA121	Foundations of Occupational Therapy	3	Co-OTA122
OTA122	Therapeutic Media	3	Co-OTA121
ENG124	College Composition [^]	3	ENG011 or Proficiency
BIO125	Medical Terminology	<u>3</u>	
		15	
<u>Second Semester</u>			
MTH105	Math for Allied Health [^] Ω	3	(MTH091 and MTH092)+ or Proficiency
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101+ or Proficiency
OTA123	Psychosocial Aspects in OT	4	OTA121 and OTA122 and PSY121 and Co-OTA124 and Pre- or Co-PSY221
OTA124	Psychosocial Clinical Experience	3	OTA121 and OTA122 and Co-OTA123
PSY221	Abnormal Psychology	<u>3</u>	PSY121 and Co-OTA123
		18	
<u>Third Semester</u>			
OTA221	Developmental Aspects in OT	4	(BIO123 or BIO122) and OTA123 and OTA124 and Co-OTA222 and Pre- or Co- PTA226 and Pre- or Co- OTA223
OTA222	Developmental Clinical Experience	3	(BIO123 or BIO122) and OTA123 and OTA124 and Co-OTA221 and Pre- or Co- PTA226 and Pre- or Co- OTA223
OTA223	Life Span Development	5	ENG124
PTA226	Functional Anatomy	<u>4</u>	BIO122 or BIO123
		16	
<u>Fourth Semester</u>			
SOC121	Sociology [^]	3	IDS102 or Proficiency
BIO124	Human Diseases	3	BIO122 or BIO123
OTA224	OT in Physical Dysfunction	4	OTA221 and OTA222 and Co-OTA225 and Pre- or Co- BIO124
OTA225	Physical Dysfunction Clinical Experience	<u>3</u>	OTA222 and Co-OTA224 and OTA221
		13	
<u>Fifth Semester</u>			
OTA226	OTA Seminar	2	OTA224 and OTA225 and Co-OTA227 and Co-OTA228
OTA227	Clinical Application I	3	OTA224 and OTA225 and Co-OTA226 and Co-OTA228
OTA228	Clinical Application II	<u>3</u>	OTA224 and OTA225 and Co-OTA226 and Co-OTA227
		8	
	TOTAL CREDITS	70	

[^]Based on SSC placement scores.

+Minimum grade of "B" required.

BIO121 and BIO122 can be substituted for BIO123

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria require a "B" or better in BIO101, HS BIO, and (MTH91 and MTH092) or Proficiency to apply to the OTA program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ASSOCIATE OF APPLIED SCIENCE

MEDICAL LABORATORY TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

3300

Health and Human Services Division

Medical Technology Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MLT121	Fundamentals of Lab Techniques	3		
MLT122	Urinalysis and Body Fluids	3	MLT124	
MLT123	Hematology I	3		
MLT124	Hematology II	4	MLT123	
MLT125	Immunohematology	5	MLT126	
MLT126	Immunology/Serology	3		
MLT225	MLT Applications	3	MLT223 and MLT125 and MLT222	
MLT226	MLT Directed Practice	6	MLT225 and Co-MLT227	
MLT227	MLT Seminar	1	MLT223 and MLT225 and Co-MLT226	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
BIO123	Principles of Human Structure & Function (lab)▲#	5	BIO101 or Proficiency	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM121	General, Organic, and Biological Chemistry I^	4	CHM101 or Proficiency	
CHM122	General, Organic, and Biological Chemistry II	4	CHM121	
MTH124	Statistics^	3	MTH093++ or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
MLT222	Clinical Chemistry	5	(BIO122 or BIO123) and CHM122 and MLT121 and MLT122	
MLT223	Clinical Microbiology	7	BIO221 and MLT126	
	Social Science Elective*	3	Check for prerequisites	
Total		39		
TOTAL CREDIT HOURS		70		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Requires a grade of "C" or better.

BIO121 and BIO122 can be substituted for BIO123

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Choose from sociology or psychology offerings

Application criteria requires a "B" or better in BIO101 or HS BIO, CHM101 or HS CHM, and MTH093 and MTH094, or proficiency to apply to the MLT program.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required

FULL-TIME STUDENT ADVISING NOTES

1516 Catalog Effective Summer 2015	MEDICAL LABORATORY TECHNOLOGY	3300

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BIO123	Principles of Human Structure and Function (lab)▲#	5	BIO101 or Proficiency
CHM121	General, Organic, Biological Chemistry I^	4	CHM101 or Proficiency
MLT121	Fundamentals of Laboratory Techniques	3	
MLT126	Immunology/Serology	3	
MLT123	Hematology I	3	
		19	
<u>Second Semester</u>			
CHM122	General, Organic, and Biological Chemistry II	4	CHM121
MTH124	Statistics^	3	MTH093++ or Proficiency
MLT124	Hematology II	4	MLT123
MLT125	Immunohematology	5	MLT126
		16	
<u>Summer</u>			
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
MLT122	Urinalysis and Body Fluids	3	MLT124
		7	
<u>Fourth Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
MLT222	Clinical Chemistry	5	(BIO122 or BIO123) and CHM122 and MLT121 and MLT122
MLT223	Clinical Microbiology	7	BIO221 and MLT126
		15	
<u>Fifth Semester</u>			
<i>Social Science Elective*</i>		3	<i>Check for prerequisites</i>
MLT225	MLT Applications	3	MLT125 and MLT222 and MLT223
MLT226	MLT Directed Practice	6	MLT225 and Co-MLT227
MLT227	MLT Seminar	1	MLT223 and MLT225 and Co-MLT226
		13	
	TOTAL CREDITS	70	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Requires a grade of "C" or better.

BIO121 and BIO122 can be substituted for BIO123

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Choose from sociology or psychology offerings

Application criteria requires a "B" or better in BIO101 or HS BIO, CHM101 or HS CHM, and MTH093 and MTH094, or proficiency to apply to the MLT program.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required



ASSOCIATE OF APPLIED SCIENCE RN COMPLETION FOR LPN

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Effective Summer 2015

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The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Health and Human Services Division

Nursing Department

A Licensed Practical Nurse (LPN) admitted to Stark State College's ADN program with Advanced Standing Admission meets the credit requirements for graduation in the following way:

- 35 credits for one calendar year curriculum
- 20 credits for nursing courses granted upon successful completion of the Transition for the LPN course
- 22 hours of prerequisite credit (see Admission Criteria and listing below)

PRE-REQUISITE CREDITS AS LISTED BELOW:

NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab) [▲]	4	BIO101** or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
CHM121	Gen., Org., & Bio., Chemistry I (lab) [▲]	4	HS CHM+ or CHM101+	
CHM122	Gen., Org., & Bio., Chemistry II (lab)	4	CHM121	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
TOTAL CREDIT HOURS		22		

ONE CALENDAR YEAR CURRICULUM AS LISTED BELOW:

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NUR201	Transition for the LPN	5	<i>Admission to program</i>	
NUR222	Nursing Care of Persons with Alterations in Health II	8	PSY123	
NUR223	Nursing Care of Persons with Alterations in Health III	8	NUR222 and Co-NUR224 and BIO221 and SOC121	
NUR224	Nursing Seminar	1	BIO221 and NUR222 and SOC121 and Co-NUR223	
Total		22		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
MTH124	Statistics ^{^**}	3	MTH093++ or Proficiency	
PSY123	Human Growth & Development	3	PSY121	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
Total		13		
TOTAL CREDIT HOURS		35		

[^]Based on SSC placement scores

+Minimum grade of "B" required.

++Minimum grade of "C" required.

[▲] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material need to complete the listed pre-requisites.

*BIO101 is waived as a prerequisite course for LPNs applying for advanced standing admissions.

**Students who begin taking technical courses Summer 2014 and after will be required to take MTH124 "Statistics".

***Application criteria requires a "B" or better in CHM101 or HS CHM to apply to the RN Completion for the LPN program.
Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.***

FULL-TIME STUDENT ADVISING NOTES

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Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Summer Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
NUR201	Transition for the LPN	5	<i>Admission to Program</i>
PSY123	Human Growth and Development	<u>3</u>	PSY121
		8	
<u>Fall Semester</u>			
SOC121	Sociology [^]	3	IDS102 or Proficiency
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
NUR222	Nursing Care of Persons with Alterations in Health II	<u>8</u>	PSY123
		15	
<u>Spring Semester</u>			
NUR223	Nursing Care of Persons with Alterations in Health III	8	NUR222 and Co-NUR224 and BIO221 and SOC121
NUR224	Nursing Seminar	1	BIO221 and NUR222 and SOC121 and Co-NUR223
MTH124	Statistics ^{^**}	<u>3</u>	MTH093++ or Proficiency
		12	
	TOTAL CREDITS	35	

[^]Based on SSC placement scores

++Minimum grade of "C" required.

**Students who begin taking technical courses Summer 2014 and after will be required to take MTH124 "Statistics".

*Application criteria requires a "B" or better in CHM101 or HS CHM to apply to the RN Completion for the LPN program.
Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.*



ASSOCIATE OF APPLIED SCIENCE RN COMPLETION FOR PARAMEDICS

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

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Health and Human Services Division

Nursing Department

A Paramedic admitted to Stark State College's ADN Program with advanced standing admission meets the credit requirements for graduation in the following way:

- 12 credits for nursing courses granted upon successful completion of the *Transition for the Paramedic* course (See Admissions Criteria)
- 44 credits for 4 semesters of course work (see listing below)
- 22 hours of prerequisite credits (see listing below)

PRE-REQUISITE CREDITS AS LISTED BELOW:

NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab) [▲]	4	BIO101*+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
CHM121	Gen., Org., & Bio., Chemistry I (lab) [▲]	4	HS CHM+ or CHM101+	
CHM122	Gen., Org., & Bio., Chemistry II (lab)	4	CHM121	
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
TOTAL CREDIT HOURS		22		

FOUR SEMESTERS OF COURSEWORK AS LISTED BELOW:

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NUR225	Transition for the Paramedic	6	<i>Admission to Program</i>	
NUR122	Nursing Care of the Childbearing Family	4	NUR225 and BIO122 and CHM122 and ENG124	
NUR123	Nursing Care of Children	4	NUR122	
NUR222	Nursing Care of Persons with Alterations in Health II	8	PSY123	
NUR223	Nursing Care of Persons with Alterations in Health III	8	NUR222 and SOC121 and BIO221 and Co-NUR224	
NUR224	Nursing Seminar	1	BIO221 and NUR222 and SOC121 and Co-NUR223	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
MTH124	Statistics [^] **	3	MTH093++ or Proficiency	
PSY123	Human Growth & Development	3	PSY121	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
Total		13		
TOTAL CREDIT HOURS		44		

[^]Based on SSC placement score

+Minimum grade of "B" required

++Minimum grade of "C" required

[▲] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material need to complete the listed pre-requisites.

*BIO101 is waived as a prerequisite course for Paramedics seeking advanced standing admission

**Students who begin taking technical courses Summer 2014 and after will be required to take MTH124 "Statistics".

Application criteria require a "B" or better in BIO101 or HS BIO, and CHM101 or HS CHM to apply to the RN Completion for the Paramedic program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Fall Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
NUR225	Transition for the Paramedic	6	Admission to Program
<u>Spring Semester</u>			
NUR122	Nursing Care of the Childbearing Family	4	NUR225 and BIO122 and CHM122 and ENG124
NUR123	Nursing Care of Children	4	NUR122
PSY123	Human Growth and Development	3	PSY121
		11	
<u>Summer Semester</u>			
SOC121	Sociology [^]	3	IDS102 or Proficiency
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
NUR222	Nursing Care of Persons with Alterations in Health II	8 15	PSY123
<u>Fall Semester</u>			
NUR223	Nursing Care of Persons with Alterations in Health III	8	NUR222 and SOC121 and BIO221 and Co-NUR224
NUR224	Nursing Seminar	1	BIO221 and NUR222 and SOC121 and Co-NUR223
MTH124	Statistics ^{^**}	3	MTH093++ or Proficiency
		12	
	TOTAL CREDITS	44	

[^]Based on SSC placement score

++Minimum grade of "C" required

**Students who begin taking technical courses Summer 2014 and after will be required to take MTH124 "Statistics".

***Application criteria require a "B" or better in BIO101 or HS BIO, and CHM101 or HS CHM to apply to the RN Completion for the Paramedic program.
Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.***

	ASSOCIATE OF APPLIED SCIENCE CONCEPT-BASED NURSING <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 3358

Health and Human Services Division

Nursing Department

A student cannot register for NSG courses until accepted into the program.

PRE-NURSING CREDITS AS LISTED BELOW:				
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MTH124	Statistics^	3	MTH093++ or Proficiency	
BIO101	Introduction to Anatomy and Physiology	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
SSC101	Student Success Seminar^^	1		
TOTAL CREDIT HOURS		13		

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NSG100	Fundamental Concepts of Nursing Practice Across the Lifespan (lecture)	3	Admission to Program and Co-NSG100L and Co-NSG100C and Co-NSG101	
NSG100L	Fundamental Concepts of Nursing Practice Across the Lifespan (lab)	1	Admission to Program and Co-NSG100 and Co-NSG100C and Co-NSG101	
NSG100C	Fundamental Concepts of Nursing Practice Across the Lifespan (clinical)	2	Admission to Program and Co-NSG100 and Co-NSG100L and Co-NSG101	
NSG101	Clinical Reasoning in Current Nursing Practice	2	(Co-NSG100 and Co-NSG100L and Co-NSG100C) or (Co-NSG122 and Co-NSG122L and Co-NSG122C) or (Co-NSG123 and Co-NSG123L and Co-NSG123C)	
NSG121	Concepts of Nursing Practice in the Care of Adult Patients with Uncomplicated Conditions (lecture)	2	(BIO121 or BIO123) and NSG100 and NSG100L and NSG100C and NSG101 and Co-NSG121L and Co-NSG121C	
NSG121L	Concepts of Nursing Practice in the Care of Adult Patients with Uncomplicated Conditions (lab)	0.5	(BIO121 or BIO123) and NSG100 and NSG100L and NSG100C and NSG101 and Co-NSG121 and Co-NSG121C	
NSG121C	Concepts of Nursing Practice in the Care of Adult Patients with Uncomplicated Conditions (clinical)	1.5	(BIO121 or BIO123) and NSG100 and NSG100L and NSG100C and NSG101 and Co-NSG121 and Co-NSG121L	
NSG141	Concepts of Nursing Practice in the Care of Patients with Mental Illness Issues (lecture)	1.5	(BIO121 or BIO123) and (NSG100 and NSG100L and NSG100C) or (NSG122 and NSG122L and NSG122C) or (NSG123 and NSG123L and NSG123C) and NSG101 and Co-NSG141L and Co-NSG141C	
NSG141L	Concepts of Nursing Practice in the Care of Patients with Mental Illness Issues (lab)	0.5	(BIO121 or BIO123) and (NSG100 and NSG100L and NSG100C) or (NSG122 and NSG122L and NSG122C) or (NSG123 and	

			NSG123L and NSG123C) and NSG101 and Co-NSG141 and Co-NSG141C	
TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NSG141C	Concepts of Nursing Practice in the Care of Patients with Mental Illness Issues (clinical)	1	(BIO121 or BIO123) and (NSG100 and NSG100L and NSG100C) or (NSG122 and NSG122L and NSG122C) or (NSG123 and NSG123L and NSG123C) and NSG101 and Co-NSG141 and Co-NSG141L	
NSG221	Concepts of Nursing Practice in the Care of the Reproducing and Developing Family (lecture)	2.5	NSG141 and NSG141L and NSG141C and Co-NSG221L and Co-NSG221C	
NSG221L	Concepts of Nursing Practice in the Care of the Reproducing and Developing Family (lab)	0.5	NSG141 and NSG141L and NSG141C and Co-NSG221 and Co-NSG221C	
NSG221C	Concepts of Nursing Practice in the Care of the Reproducing and Developing Family (clinical)	1	NSG141 and NSG141L and NSG141C and Co-NSG221 and Co-NSG221L	
NSG241	Concepts of Nursing Practice in the Care of Adult Patients with Stable and Unstable Acute Conditions (lecture)	3	BIO122 and NSG141 and NSG141L and NSG141C and Co-NSG241L and Co-NSG241C	
NSG241L	Concepts of Nursing Practice in the Care of Adult Patients with Stable and Unstable Acute Conditions (lab)	0.5	BIO122 and NSG141 and NSG141L and NSG141C and Co-NSG241 and Co-NSG241C	
NSG241C	Concepts of Nursing Practice in the Care of Adult Patients with Stable and Unstable Acute Conditions (clinical)	1.5	BIO122 and NSG141 and NSG141L and NSG141C and Co-NSG241 and Co-NSG241L	
NSG261	Concepts of Nursing Practice in the Care of Patients Across the Lifespan with Complex Conditions (lecture)	5	BIO221 and PSY123 and NSG221 and NSG221L and NSG221C and NSG241 and NSG241L and NSG241C and Co-NSG261L and Co-NSG261C	
NSG261L	Concepts of Nursing Practice in the Care of Patients Across the Lifespan with Complex Conditions (lab)	1	BIO221 and PSY123 and NSG221 and NSG221L and NSG221C and NSG241 and NSG241L and NSG241C and Co-NSG261 and Co-NSG261C	
NSG261C	Concepts of Nursing Practice in the Care of Patients Across the Lifespan with Complex Conditions (clinical)	3	BIO221 and PSY123 and NSG221 and NSG221L and NSG221C and NSG241 and NSG241L and NSG241C and Co-NSG261 and Co-NSG261L	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab)▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
PSY123	Human Growth & Development	3	PSY121	
SOC121	Sociology^	3	IDS102 or Proficiency	
Total		18		
TOTAL CREDIT HOURS		64		

 	ASSOCIATE OF APPLIED SCIENCE CONCEPT-BASED NURSING <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 3358

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

A student cannot register for NSG courses until accepted into the program.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MTH124	Statistics [^]	3	MTH093++ or Proficiency
BIO101	Introduction to Anatomy and Physiology	3	IDS102 or Proficiency
PSY121	General Psychology [^]	3	IDS102 or Proficiency
ENG124	College Composition [^]	3	ENG011 or Proficiency
SSC101	Student Success Seminar ^{^^}	<u>1</u>	
		13	
<u>Second Semester</u>			
BIO121	Anatomy and Physiology I (lab) [^]	4	BIO101+ or Proficiency
NSG100	Fundamental Concepts of Nursing Practice Across the Lifespan (lecture)	3	Admission to Program and Co-NSG100L and Co-NSG100C and Co-NSG101
NSG100L	Fundamental Concepts of Nursing Practice Across the Lifespan (lab)	1	Admission to Program and Co-NSG100 and Co-NSG100C and Co-NSG101
NSG100C	Fundamental Concepts of Nursing Practice Across the Lifespan (clinical)	2	Admission to Program and Co-NSG100 and Co-NSG100L and Co-NSG101
NSG101	Clinical Reasoning in Current Nursing Practice	<u>2</u>	(Co-NSG100 and Co-NSG100L and Co-NSG100C) or (Co-NSG122 and Co-NSG122L and Co-NSG122C) or (Co-NSG123 and Co-NSG123L and Co-NSG123C)
		12	
<u>Third Semester</u>			
NSG121	Concepts of Nursing Practice in the Care of Adult Patients with Uncomplicated Conditions (lecture)	2	(BIO121 or BIO123) and NSG100 and NSG100L and NSG100C and NSG101 and Co-NSG121L and Co-NSG121C
NSG121L	Concepts of Nursing Practice in the Care of Adult Patients with Uncomplicated Conditions (lab)	0.5	(BIO121 or BIO123) and NSG100 and NSG100L and NSG100C and NSG101 and Co-NSG121 and Co-NSG121C
NSG121C	Concepts of Nursing Practice in the Care of Adult Patients with Uncomplicated Conditions (clinical)	1.5	(BIO121 or BIO123) and NSG100 and NSG100L and NSG100C and NSG101 and Co-NSG121 and Co-NSG121L
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
PSY123	Human Growth & Development	3	PSY121
NSG141	Concepts of Nursing Practice in the Care of Patients with Mental Illness Issues (lecture)	1.5	(BIO121 or BIO123) and (NSG100 and NSG100L and NSG100C) or (NSG122 and NSG122L and NSG122C) or (NSG123 and NSG123L and NSG123C) and Co-NSG141L and Co-NSG141C
NSG141L	Concepts of Nursing Practice in the Care of Patients with Mental Illness Issues (lab)	0.5	(BIO121 or BIO123) and (NSG100 and NSG100L and NSG100C) or (NSG122 and NSG122L and NSG122C) or (NSG123 and NSG123L and NSG123C) and NSG101 and Co-NSG141 and Co-NSG141C

NSG141C	Concepts of Nursing Practice in the Care of Patients with Mental Illness Issues (clinical)	<u>1</u>	(BIO121 or BIO123) and (NSG100 and NSG100L and NSG100C) or (NSG122 and NSG122L and NSG122C) or (NSG123 and NSG123L and NSG123C) and NSG101 and Co-NSG141 and Co-NSG141L
14			
<u>Fourth Semester</u>			
NSG221	Concepts of Nursing Practice in the Care of the Reproducing and Developing Family (lecture)	2.5	NSG141 and NSG141L and NSG141C and Co-NSG221L and Co-NSG221C
NSG221L	Concepts of Nursing Practice in the Care of the Reproducing and Developing Family (lab)	0.5	NSG141 and NSG141L and NSG141C and Co-NSG221 and Co-NSG221C
NSG221C	Concepts of Nursing Practice in the Care of the Reproducing and Developing Family (clinical)	1	NSG141 and NSG141L and NSG141C and Co-NSG221 and Co-NSG221L
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
NSG241	Concepts of Nursing Practice in the Care of Adult Patients with Stable and Unstable Acute Conditions	3	BIO122 and NSG141 and NSG141L and NSG141C and Co-NSG241L and Co-NSG241C (lecture)
NSG241L	Concepts of Nursing Practice in the Care of Adult Patients with Stable and Unstable Acute Conditions	0.5	BIO122 and NSG141 and NSG141L and NSG141C and Co-NSG241 and Co-NSG241C (lab)
NSG241C	Concepts of Nursing Practice in the Care of Adult Patients with Stable and Unstable Acute Conditions	<u>1.5</u>	BIO122 and NSG141 and NSG141L and NSG141C and Co-NSG241 and Co-NSG241L (clinical)
13			
<u>Fifth Semester</u>			
NSG261	Concepts of Nursing Practice in the Care of Patients Across the Lifespan with Complex Conditions (lecture)	5	BIO221 and PSY123 and NSG221 and NSG221L and NSG221C and NSG241 and NSG241L and NSG241C and Co-NSG261L and Co-NSG261C
NSG261L	Concepts of Nursing Practice in the Care of Patients Across the Lifespan with Complex Conditions (lab)	1	BIO221 and PSY123 and NSG221 and NSG221L and NSG221C and NSG241 and NSG241L and NSG241C and Co-NSG261 and Co-NSG261C
NSG261C	Concepts of Nursing Practice in the Care of Patients Across the Lifespan with Complex Conditions (clinical)	3	BIO221 and PSY123 and NSG221 and NSG221L and NSG221C and NSG241 and NSG241L and NSG241C and Co-NSG261 and Co-NSG261L
SOC121	Sociology	<u>3</u>	IDS101 or Proficiency
12			
TOTAL CREDITS		64	

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

All applications received after March 1, 2015 will be considered on a selective admission basis.



ASSOCIATE OF APPLIED SCIENCE DENTAL HYGIENE

1516 Catalog
Effective Summer 2015

3400

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Health and Human Services Division

Allied Dental Health Professions Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DHY121	Head, Neck & Oral Anatomy	2	Co-DHY123	
DHY122	Oral Histology & Embryology	1		
DHY123	Dental Radiography	3	Co-DHY121	
DHY124	Periodontics I	2	DHY122	
DHY125	Dental Materials	3	DHY131	
DHY126	Pathology	2	DHY122	
DHY131	Fundamentals of Dental Hygiene Practice	4		
DHY132	Dental Hygiene Theory I	2	DHY131 and Co-DHY133	
DHY133	Clinical Dental Hygiene I	2	DHY131 and DHY123 and Co-DHY132	
DHY134	Clinical Dental Hygiene IA	1	DHY133	
DHY221	Nutrition in Dentistry	1	DHY132	
DHY222	Dental Pharmacology	2	BIO221 and DHY126	
DHY223	Community Oral Health	1	DHY134	
DHY224	Periodontics II	1	DHY124	
DHY225	Anesthesia & Pain Control	2	BIO122 and DHY121 and DHY132	
DHY231	Dental Hygiene Theory II	1	DHY132 and Co-DHY232	
DHY232	Clinical Dental Hygiene II	4	DHY134 and Co-DHY231	
DHY233	Dental Hygiene Theory III	2	DHY231 and Co-DHY234	
DHY234	Clinical Dental Hygiene III	5	DHY232 and Co-DHY233	
Total		41		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
BIO121	Anatomy and Physiology I (lab)▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO221	Principles of Microbiology (lab)#	4	BIO122 or BIO123 or BIO141	
CHM121	Gen., Org., & Bio., Chemistry I (lab)▲	4	HS CHM or CHM101	
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH124	Statistics^	3	MTH093++ or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
Total		32		
TOTAL CREDIT HOURS		73		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

#May not be taken earlier than 3 years prior to enrollment in DHY121.

▲Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Minimum grade of "C" in all technical courses is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Pre-Eligibility Courses</u>		<u>Credit Hours</u>	<u>Pre- and Co-Requisites</u>
CHM121	Gen., Org., & Bio., Chemistry I (lab) [▲]	4	HS CHM or CHM101
BIO121	Anatomy and Physiology I (lab) [▲]	4	BIO101 or Proficiency
PSY121	General Psychology [▲]	3	IDS102 or Proficiency
ENG124	College Composition [▲]	<u>3</u>	ENG011 or Proficiency
		14	
<u>First Semester</u>			
DHY121	Head, Neck & Oral Anatomy	2	Co-DHY123
DHY122	Oral Histology & Embryology	1	
DHY123	Dental Radiography	3	Co-DHY121
DHY131	Fundamentals of Dental Hygiene Practice	4	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
SSC101	Student Success Seminar ^{^^}	<u>1</u>	Take first semester
		15	
<u>Second Semester</u>			
DHY124	Periodontics I	2	DHY122
DHY125	Dental Materials	3	DHY131
DHY126	Pathology	2	DHY122
DHY132	Dental Hygiene Theory I	2	DHY131 and Co-DHY133
DHY133	Clinical Dental Hygiene I	2	DHY131 and DHY123 and Co-DHY132
BIO221	Principles of Microbiology (lab) #	<u>4</u>	BIO122 or BIO123 or BIO141
		15	
<u>Summer Semester</u>			
DHY134	Clinical Dental Hygiene IA	1	DHY133
DHY221	Nutrition in Dentistry	1	DHY132
MTH124	Statistics [▲]	<u>3</u>	MTH093++ or Proficiency
		5	
<u>Third Semester</u>			
SOC121	Sociology [▲]	3	IDS102 or Proficiency
DHY222	Dental Pharmacology	2	BIO221 and DHY126
DHY223	Community Oral Health	1	DHY134
DHY225	Anesthesia & Pain Control	2	BIO122 and DHY121 and DHY132
DHY231	Dental Hygiene Theory II	1	DHY132 and Co-DHY232
DHY232	Clinical Dental Hygiene II	<u>4</u>	DHY134 and Co-DHY231
		13	
<u>Fourth Semester</u>			
COM121	Effective Speaking	3	
DHY224	Periodontics II	1	DHY124
DHY233	Dental Hygiene Theory III	2	DHY231 and Co-DHY234
DHY234	Clinical Dental Hygiene III	<u>5</u>	DHY232 and Co-DHY233
		11	
	TOTAL CREDITS	73	

[▲]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

#May not be taken earlier than 3 years prior to enrollment in DHY121.

[▲]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Minimum grade of "C" in all technical courses is required.



ASSOCIATE OF SCIENCE DENTAL ASSISTING

1516 Catalog

Effective Summer 2015

3425

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Health and Human Services Division

Allied Dental Health Professions Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS & BUSINESS				
BUS121	Business Administration^	3	IDS102 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ORAL COMMUNICATION:				
COM121	Effective Speaking	3		
ENGLISH COMPOSITION:				
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG230	Business Communication	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES:				
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY124	Industrial/Organizational Psychology	3		
SOC121	Sociology^	3	IDS102 or Proficiency	
ARTS & HUMANITIES:				
PHL122	Ethics	3		
SOC225	Cultural Diversity	3		
SCIENCES & MATHEMATICS: 14-15 credits minimum				
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency	
BIO121	Anatomy and Physiology I (lab)▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
Total		46		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Minimum grade of "C" in all technical courses is required.

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AREA OF CONCENTRATION COURSES: All required.				
DAS121	Dental Assisting Techniques I**	3		
DAS122	Dental Assisting Radiography	2		
DAS123	Dental Assisting Techniques II	3	DAS121	
DAS124	Dental Assisting Materials	2		
DAS125	Dental Assisting Specialty#	3	DAS123	
DAS128	Intro to Dental Terminology & Basic Anatomy	2		
	Total	15		
	TOTAL CREDIT HOURS	61		

#Applicants may select a dental assisting course option in which to gain specialized skills: Dental Office Management, Community Dentistry or Clinical Dental Assisting. Required course in the Associate of Science Degree in Dental Assisting.

**Course may be taken in conjunction with other technical courses, but must be taken in the first semester of technical course work.

Minimum grade of "C" in all technical courses is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides a scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar [^]	1	<i>Take first semester</i>
DAS121	Dental Assisting Techniques I ^{**}	3	
DAS122	Dental Assisting Radiography	2	
DAS128	Intro to Dental Terminology & Basic Anatomy	2	
ENG124	College Composition [^]	3	ENG011 or Proficiency
MTH125	College Algebra [^]	4	(MTH093 or MTH094) ⁺⁺ or Proficiency
		15	
<u>Second Semester</u>			
BIO101	Introduction to Anatomy and Physiology [^]	3	IDS102 or Proficiency
DAS123	Dental Assisting Techniques II	3	DAS121
DAS124	Dental Assisting Materials	2	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency
SOC121	Sociology [^]	3	IDS102 or Proficiency
		14	
<u>Third Semester</u>			
DAS125	Dental Assisting Specialty#	3	DAS123
PSY121	General Psychology [^]	3	IDS102 or Proficiency
		6	
<u>Fourth Semester</u>			
BIO121	Anatomy and Physiology I (lab) [^]	4	BIO101 or Proficiency
COM121	Effective Speaking	3	
SOC225	Cultural Diversity	3	
PSY124	Industrial/Organizational Psychology	3	
		13	
<u>Fifth Semester</u>			
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
BUS121	Business Administration [^]	3	IDS102 or Proficiency
ENG230	Business Communication	3	ENG124
PHL122	Ethics	3	
		13	
	TOTAL CREDITS	61	

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

[^] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

#Applicants may select a dental assisting course option in which to gain specialized skills: Dental Office Management, Community Dentistry or Clinical Dental Assisting. Required course in the Associate of Science Degree in Dental Assisting.

^{**}Course may be taken in conjunction with other technical courses, but must be taken in the first semester of technical course work.

Minimum grade of "C" in all technical courses is required.



ASSOCIATE OF SCIENCE

EXPANDED FUNCTIONS DENTAL AUXILIARY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

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Health and Human Services Division

Allied Dental Health Professions Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar [^]	1	Take First Semester	
COMPUTER APPLICATIONS & BUSINESS				
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
ORAL COMMUNICATION:				
COM121	Effective Speaking	3		
ENGLISH COMPOSITION:				
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG230	Business Communication	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES:				
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
PSY124	Industrial/Organizational Psychology	3		
SOC121	Sociology [^]	3	IDS102 or Proficiency	
ARTS & HUMANITIES:				
PHL122	Ethics	3		
SOC225	Cultural Diversity	3		
SCIENCES & MATHEMATICS: 14 credits minimum				
BIO101	Introduction to Anatomy and Physiology	3	IDS102 or Proficiency	
BIO121	Anatomy and Physiology I (lab) [▲]	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
	TOTAL GENERAL EDUCATION CREDITS	46		
AREA OF CONCENTRATION COURSES: All required.				
DAS128	Intro to Dental Anatomy and Terminology	2		
DAS225	Dental Morphology for Expanded Functions Dental Auxiliary	2	Co-DAS226 and Co-DAS227	
DAS226	Expanded Dental Assisting I	2	Co-DAS225 and Co-DAS227	
DAS227	Expanded Dental Assisting II	3	Co-DAS225 and Co-DAS226	
DAS228	Directed Clinical Practice	5	DAS225 and DAS226 and DAS227	
	TOTAL TECHNICAL CREDITS	14		
	TOTAL CREDIT HOURS	60		

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Each student should make an appointment to see their advisor every semester before registering for classes. Please have your registration form completed, including the courses you wish to take, for this meeting.

Course Sequence

The semester-by-semester listing below gives the normal scheduling option for full-time associate degree students who plan to finish in two years. Some courses can be scheduled as beginning courses in other semesters depending upon course availability and advisor's recommendation.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
DAS225	Dental Morphology for Expanded Functions Dental Auxiliary	2	Co-DAS226 and Co-DAS227
DAS226	Expanded Dental Assisting I	2	Co-DAS225 and Co-DAS227
DAS227	Expanded Dental Assisting II	3	Co-DAS225 and Co-DAS226
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency
SSC101	Student Success Seminar ^{^^}	<u>1</u>	<i>Take first semester</i>
		12	
<u>Second Semester</u>			
BIO101	Introduction to Anatomy and Physiology [^]	3	IDS102 or Proficiency
DAS228	Directed Clinical Practice	5	DAS225 and DAS226 and DAS227
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency
SOC121	Sociology [^]	<u>3</u>	IDS102 or Proficiency
		14	
<u>Summer Semester</u>			
PSY121	General Psychology [^]	3	IDS102 or Proficiency
ENG124	College Composition [^]	3	ENG011 or Proficiency
DAS128	Intro to Dental Anatomy and Terminology	<u>2</u>	
		8	
<u>Fourth Semester</u>			
BIO121	Anatomy and Physiology I (lab) [▲]	4	BIO101 or Proficiency
COM121	Effective Speaking	3	
PSY124	Industrial/Organizational Psychology	3	
SOC225	Cultural Diversity	<u>3</u>	
		13	
<u>Fifth Semester</u>			
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
BUS121	Business Administration [^]	3	IDS102 or Proficiency
ENG230	Business Communication	3	ENG124
PHL122	Ethics	<u>3</u>	
		13	
	TOTAL CREDITS	60	

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

[▲]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Minimum grade of "C" in all technical courses is required.



ASSOCIATE OF TECHNICAL STUDIES

ATS MASSAGE THERAPY – FALL START

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

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Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
MAS121	Massage Therapy I	6		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
MAS123	Massage Therapy Anatomy & Physiology I★	1		
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO122	
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS224	Massage Therapy III	2	MAS122	
MAS225	Massage Therapy IV	2	MAS224	
MAS226	Massage Therapy V	3	MAS124 and MAS225 and Co-MAS223	
MAS227	Massage Therapy Procedures	2	MAS121	
MAS228	Professional Practice and Evaluation	1	MAS122	
MAS229	Clinic Operations	2	MAS225	
BIO124	Human Diseases	3	BIO122 or BIO123	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO125	Medical Terminology	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
GER121	Introduction to Gerontology	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH105 or MTH124	Math for Allied Health^Ω or Statistics^	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
PHL122	Ethics	3		
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
Total		32		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Fall Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MAS121	Massage Therapy I	6	
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency
COM121	Effective Speaking	3	
ENG 124	College Composition^	3	ENG011 or Proficiency
MAS123	Massage Therapy Anatomy & Physiology I★	<u>1</u>	
		18	
<u>Spring Semester</u>			
MAS122	Massage Therapy II	2	MAS121 and MAS123
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO122
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency
MAS224	Massage Therapy III	<u>2</u>	MAS122
		13	
<u>Summer Semester</u>			
BIO124	Human Diseases	3	BIO122 or BIO123
BIO125	Medical Terminology	3	
MAS225	Massage Therapy IV	2	MAS224
MAS228	Professional Practice and Evaluation	<u>1</u>	MAS122
		9	
<u>Fall Semester</u>			
MTH105	Math for Allied Health^Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^	3	MTH093++ or Proficiency
MAS223	Massage Therapy Review	3	(BIO122 or BIO123)
			and Co-MAS226
MAS226	Massage Therapy V	3	MAS124 and MAS225
MAS227	Massage Therapy Procedures	2	MAS121
MAS229	Clinic Operations	<u>2</u>	MAS225
		13	
<u>Spring Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
GER121	Introduction to Gerontology	3	
PHL122	Ethics	<u>3</u>	
		9	
TOTAL CREDITS		62	

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.



ASSOCIATE OF TECHNICAL STUDIES

ATS MASSAGE THERAPY – SPRING START

1516 Catalog

Effective Summer 2015

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The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
MAS121	Massage Therapy I	6		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
MAS123	Massage Therapy Anatomy & Physiology I★	1		
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Pre- or Co-BIO122	
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS224	Massage Therapy III	2	MAS122	
MAS225	Massage Therapy IV	2	MAS224	
MAS226	Massage Therapy V	3	MAS124 and MAS225 and Co-MAS223	
MAS227	Massage Therapy Procedures	2	MAS121	
MAS228	Professional Practice and Evaluation	1	MAS122	
MAS229	Clinic Operations	2	MAS225	
BIO124	Human Diseases	3	BIO122 or BIO123	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO125	Medical Terminology	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
GER121	Introduction to Gerontology	3		
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH105 or MTH124	Math for Allied Health^Ω or Statistics^	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
PHL122	Ethics	3		
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
Total		32		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Spring Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MAS121	Massage Therapy I	6	
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency
COM121	Effective Speaking	3	
MAS123	Massage Therapy Anatomy & Physiology I★	<u>1</u>	
		15	
<u>Summer Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
MAS122	Massage Therapy II	2	MAS121 and MAS123
ENG124	College Composition^	3	ENG011 or Proficiency
BIO125	Medical Terminology	<u>3</u>	
		11	
<u>Fall Semester</u>			
BIO122	Anatomy & Physiology II (lab)	4	BIO121 or BIO123
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Pre- or Co-BIO122
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency
MAS224	Massage Therapy III	2	MAS122
MAS225	Massage Therapy IV	2	MAS224
MAS227	Massage Therapy Procedures	2	MAS121
MAS228	Professional Practice & Evaluation	<u>1</u>	MAS122
		16	
<u>Spring Semester</u>			
BIO124	Human Diseases	3	BIO122 or BIO123
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226
MAS226	Massage Therapy V	3	MAS225 and MAS124
MAS229	Clinic Operations	<u>2</u>	MAS225
		11	
<u>Summer Semester</u>			
MTH105	Math for Allied Health^Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^	3	MTH093++ or Proficiency
GER121	Introduction to Gerontology	3	
PHL122	Ethics	<u>3</u>	
		9	
	TOTAL CREDITS	62	

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

ΩMTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.



ONE-YEAR CERTIFICATE

MESSAGE THERAPY (FALL START)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

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Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
MAS121	Massage Therapy I	6		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
MAS123	Massage Therapy Anatomy & Physiology I★	1		
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Pre- or Co-BIO122	
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS224	Massage Therapy III	2	MAS122	
MAS225	Massage Therapy IV	2	MAS224	
MAS226	Massage Therapy V	3	MAS225 and MAS124 and Co-MAS223	
MAS227	Massage Therapy Procedures	2	MAS121	
MAS228	Professional Practice and Evaluation	1	MAS122	
MAS229	Clinic Operations	2	MAS225	
Total		27		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
Total		14		
TOTAL CREDIT HOURS		41		

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE MASSAGE THERAPY (FALL START)	3451

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>Fall Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MAS121	Massage Therapy I	6	
BIO121	Anatomy and Physiology I (lab)▲	4	BIO101+ or Proficiency
MAS123	Massage Therapy Anatomy & Physiology I★	1	
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency
		15	
<u>Spring Semester</u>			
MAS122	Massage Therapy II	2	MAS121 and MAS123
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Pre- or Co-BIO122
MAS224	Massage Therapy III	2	MAS122
		10	
<u>Summer Semester</u>			
BIO124	Human Diseases	3	BIO122 or BIO123
MAS225	Massage Therapy IV	2	MAS224
MAS228	Professional Practice & Evaluation	1	MAS122
		6	
<u>Fall Semester</u>			
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226
MAS226	Massage Therapy V	3	MAS225 and MAS124 and Co-MAS223
MAS227	Massage Therapy Procedures	2	MAS121
MAS229	Clinic Operations	2	MAS225
		10	
	TOTAL CREDITS	41	

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

***Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.
Minimum grade of "C" in all non-technical courses in the program curriculum is required.
Minimum grade of "B" in all MAS technical courses in the program curriculum is required.***



ONE-YEAR CERTIFICATE

MESSAGE THERAPY (SPRING START)

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

3451

Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
MAS121	Massage Therapy I	6		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
MAS123	Massage Therapy Anatomy & Physiology I★	1		
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO122	
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS224	Massage Therapy III	2	MAS122	
MAS225	Massage Therapy IV	2	MAS224	
MAS226	Massage Therapy V	3	MAS225 and MAS124 and Co-MAS223	
MAS227	Massage Therapy Procedures	2	MAS121	
MAS228	Professional Practice and Evaluation	1	MAS122	
MAS229	Clinic Operations	2	MAS225	
Total		27		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
Total		14		
TOTAL CREDIT HOURS		41		

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE MESSAGE THERAPY (SPRING START)	3451

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>Spring Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MAS121	Massage Therapy I	6	
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency
MAS123	Massage Therapy Anatomy & Physiology I★	1	
PSY222	Psychological Aspects of Therapy^	<u>3</u>	IDS102 or Proficiency
		15	
<u>Summer Semester</u>			
MAS122	Massage Therapy II	<u>2</u>	MAS121 and MAS123
		2	
<u>Fall Semester</u>			
BIO122	Anatomy and Physiology II (lab)	4	(BIO121 or BIO123) and Co-MAS124
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO122
MAS224	Massage Therapy III	2	MAS122
MAS225	Massage Therapy IV	2	MAS224
MAS228	Professional Practice and Evaluation	<u>1</u>	MAS122
		11	
<u>Spring Semester</u>			
BIO124	Human Diseases	3	BIO122 or BIO123
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226
MAS226	Massage Therapy V	3	MAS225 and MAS124 and Co-MAS223
MAS227	Massage Therapy Procedures	2	MAS121
MAS229	Clinic Operations	<u>2</u>	MAS225
		13	
	TOTAL CREDITS	41	

^Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

***Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.
Minimum grade of "C" in all non-technical courses in the program curriculum is required.
Minimum grade of "B" in all MAS technical courses in the program curriculum is required.***



ASSOCIATE OF APPLIED SCIENCE

AAS MASSAGE THERAPY – FALL START

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

3453

Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MAS121	Massage Therapy I	6		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
MAS123	Massage Therapy Anatomy & Physiology I★	1		
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO122	
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS224	Massage Therapy III	2	MAS122	
MAS225	Massage Therapy IV	2	MAS 224	
MAS226	Massage Therapy V	3	MAS124 and MAS225	
MAS227	Massage Therapy Procedures	2	MAS121	
MAS228	Professional Practice and Evaluation	1	MAS122	
MAS229	Clinic Operations	2	MAS225	
MAS231	Sports Massage	2	MAS121	
BIO124	Human Diseases	3	BIO122 or BIO123	
TOTAL		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO125	Medical Terminology	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH105 or MTH124	Math for Allied Health^Ω Statistics^	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
NTR121	Basic Medical Nutrition	3	IDS102 or Proficiency	
PHL122	Ethics	3		
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
PTA226	Functional Anatomy	4	BIO122 or BIO123	
TOTAL		31		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores

★Indicates only offered as Web 3.

+Minimum grade of “B” required.

++Minimum grade of “C” required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a “B” or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of “C” in all non-technical courses in the program curriculum is required.

Minimum grade of “B” in all MAS technical courses in the program curriculum is required

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Fall Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar [^]	1	<i>Take first semester</i>
MAS121	Massage Therapy I	6	
BIO121	Anatomy and Physiology I (lab) [^] ▲	4	BIO101+ or Proficiency
BIO125	Medical Terminology	3	
MAS123	Massage Therapy Anatomy & Physiology I★	<u>1</u>	
		15	
<u>Spring Semester</u>			
MAS122	Massage Therapy II	2	MAS121 and MAS123
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO 122
PSY222	Psychological Aspects of Therapy [^]	3	IDS102 or Proficiency
MAS224	Massage Therapy III	<u>2</u>	MAS122
		13	
<u>Summer Semester</u>			
BIO124	Human Diseases	3	BIO122 or BIO123
ENG 124	College Composition [^]	3	ENG011 or Proficiency
MAS225	Massage Therapy IV	2	MAS224
MAS228	Professional Practice and Evaluation	<u>1</u>	MAS122
		9	
<u>Fall Semester</u>			
MTH105	Math for Allied Health [^] Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics [^]	3	MTH093++ or Proficiency
MAS223	Massage Therapy Review	3	(BIO122 or BIO123)
			and Co-MAS226
MAS226	Massage Therapy V	3	MAS124 and MAS225
MAS227	Massage Therapy Procedures	2	MAS121
MAS229	Clinic Operations	<u>2</u>	MAS225
		13	
<u>Spring Semester</u>			
MAS231	Sports Massage	2	MAS121
NTR121	Basic Medical Nutrition [^]	3	IDS102 or Proficiency
PTA226	Functional Anatomy	4	BIO122 or BIO123
PHL122	Ethics	<u>3</u>	
		12	
TOTAL CREDITS		62	

[^]Based on SSC placement scores

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required



ASSOCIATE OF APPLIED SCIENCE

AAS MASSAGE THERAPY – SPRING START

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

3453

Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MAS121	Massage Therapy I	6		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
MAS123	Massage Therapy Anatomy & Physiology I★	1		
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO122	
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS224	Massage Therapy III	2	MAS122	
MAS225	Massage Therapy IV	2	MAS 224	
MAS226	Massage Therapy V	3	MAS124 and MAS225	
MAS227	Massage Therapy Procedures	2	MAS121	
MAS228	Professional Practice and Evaluation	1	MAS122	
MAS229	Clinic Operations	2	MAS225	
MAS231	Sports Massage	2	MAS121	
BIO124	Human Diseases	3	BIO122 or BIO123	
TOTAL		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO125	Medical Terminology	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH105 or MTH124	Math for Allied Health^Ω or Statistics^	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
NTR121	Basic Medical Nutrition^	3	IDS102 or Proficiency	
PHL122	Ethics	3		
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
PTA226	Functional Anatomy	4	BIO122 or BIO123	
TOTAL		31		
TOTAL CREDIT HOURS		62		

^Based on SSC placement scores

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>Spring Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MAS121	Massage Therapy I	6	
BIO121	Anatomy & Physiology I (lab)^▲	4	BIO101+ or Proficiency
BIO125	Medical Terminology	3	
MAS123	Massage Therapy Anatomy & Physiology I★	<u>1</u>	
		15	
<u>Summer Semester</u>			
BIO122	Anatomy & Physiology II (lab)	4	BIO121 or BIO123
MAS122	Massage Therapy II	2	MAS121 and MAS123
PSY222	Psychological Aspects of Therapy^	<u>3</u>	IDS102 or Proficiency
		9	
<u>Fall Semester</u>			
BIO124	Human Diseases	3	BIO122 or BIO123
MAS124	Massage Therapy Anatomy & Physiology II★	2	MAS123 and Co-BIO 122
MAS224	Massage Therapy III	2	MAS122
MAS225	Massage Therapy IV	2	MAS224
MAS227	Massage Therapy Procedures	2	MAS121
MAS228	Professional Practice and Evaluation	<u>1</u>	MAS122
		12	
<u>Spring Semester</u>			
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226
MAS226	Massage Therapy V	3	MAS124 and MAS225
MAS229	Clinic Operations	2	MAS225
MAS231	Sports Massage	2	MAS121
PTA226	Functional Anatomy	<u>4</u>	BIO122 or BIO123
		14	
<u>Summer</u>			
MTH105	Math for Allied Health^Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^	3	MTH093++ or Proficiency
ENG 124	College Composition^	3	ENG011 or Proficiency
NTR121	Basic Medical Nutrition^	3	IDS102 or Proficiency
PHL122	Ethics	<u>3</u>	
		12	
TOTAL CREDITS		62	

^Based on SSC placement scores

★Indicates only offered as Web 3.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.

Minimum grade of "C" in all non-technical courses in the program curriculum is required.

Minimum grade of "B" in all MAS technical courses in the program curriculum is required.



ASSOCIATE OF TECHNICAL STUDIES

MEDICAL INSTRUMENT STERILIZATION TECHNICIAN

1516 Catalog

Effective Summer 2015

3500

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Health and Human Services Division

Respiratory Care/Medical Instrument Sterilization Dept.

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MIS124	Medical Instrument Sterilization I	4	BIO101 or Co-BIO101	
MIS125	Medical Instrument Sterilization I/Directed Practice	2	(BIO125 or Co-BIO125) and Co-MIS124	
MIS126	Medical Instrument Sterilization II	4	MIS124	
MIS127	Medical Instrument Sterilization II/Directed Practice	3	MIS125 and Co-MIS126	
MIS123	Intro to Surgical Terminology/Microbiology	3	MIS124	
MIS222	Medical Instrument Sterilization III	2	MIS123 and MIS126	
MIS223	Medical Instrument Sterilization III/Directed Practice	1	MIS127 and Co-MIS222	
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH105 or	Math for Allied Health^ Ω	3 or	(MTH091 and MTH092)+ or Proficiency	
MTH124 or	Statistics ^	3 or	MTH093++ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PHL122	Ethics	3		
	<i>Social Science Elective^*</i>	3	IDS102 or Proficiency	
Total		32-33		
TOTAL CREDIT HOURS		62-63		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Requires a grade of "B" or better.

++Requires a grade of "C" or better.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

#BIO121 and BIO122 can be substituted for BIO123.

*May select from Sociology offerings only

**Application criteria require ENG011 or required placement score and IDS102 or required placement score.
Students are required to follow the program curriculum in effect when they begin taking technical courses,
not when students are accepted to the College or program.**

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below gives the normal scheduling option for full-time associate degree students who plan to finish in two years. Some courses can be scheduled as beginning courses in other semesters depending upon course availability and advisor's recommendation.

Medical Instrument Sterilization courses must be taken in the order listed below.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
MIS124	Medical Instrument Sterilization I	4	BIO101 or Co-BIO101
MIS125	Medical Instrument Sterilization I/Directed Practice	2	(BIO125 or Co-BIO125) and Co-MIS124
BIO125	Medical Terminology	3	
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		16	
<u>Second Semester</u>			
MIS126	Medical Instrument Sterilization II	4	MIS124
MIS127	Medical Instrument Sterilization II/Directed Practice	3	MIS125 and Co-MIS126
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency
MIS123	Introduction to Surgical Terminology/Microbiology	<u>3</u>	MIS124
		15	
<u>Summer</u>			
MIS222	Medical Instrument Sterilization III	2	MIS123 and MIS126
MIS223	Medical Instrument Sterilization III/Directed Practice	1	MIS127 and Co-MIS222
Social Science Elective^*		<u>3</u>	IDS102 or Proficiency
		6	
<u>Third Semester</u>			
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
PSY121	General Psychology^	3	IDS102 or Proficiency
COM122	Interpersonal Communication	3	
BIO124	Human Diseases	<u>3</u>	BIO122 or BIO123
		12	
<u>Fourth Semester</u>			
PHL122	Ethics	3	
COM121	Effective Speaking	3	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
MTH105	Math for Allied Health^ Ω	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^	3	MTH093++ or Proficiency
or	or	or	
MTH125	College Algebra^	<u>4</u>	(MTH093 and MTH094)++
			or Proficiency
		13-14	
TOTAL CREDITS		62-63	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

+Requires a grade of "B" or better.

++Requires a grade of "C" or better.

Ω MTH125 College Algebra or MTH124 Statistics should only be taken by students planning to transfer to a four-year institution.

#BIO121 and BIO122 can be substituted for BIO123.

*May select from Sociology offerings only

Application criteria require ENG011 or required placement score and IDS102 or required placement score. Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ONE-YEAR CERTIFICATE

MEDICAL INSTRUMENT STERILIZATION TECHNICIAN

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

3501

Health and Human Services Division

Respiratory Care/Medical Instrument Sterilization Dept.

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MIS124	Medical Instrument Sterilization I	4	Pre- or Co-BIO101	
MIS125	Medical Instrument Sterilization I/Directed Practice	2	Pre- or Co-BIO125 and Co-MIS124	
MIS126	Medical Instrument Sterilization II	4	MIS124	
MIS127	Medical Instrument Sterilization II/Directed Practice	3	MIS125 and Co-MIS126	
MIS123	Intro to Surgical Terminology/Microbiology	3	MIS124	
MIS222	Medical Instrument Sterilization III	2	MIS123 and MIS126	
MIS223	Medical Instrument Sterilization III/ Directed Practice	1	MIS127 and Co-MIS222	
Total		19		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency	
BIO125	Medical Terminology	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
PHL122	Ethics	3		
Total		13		
TOTAL CREDIT HOURS		32		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

Application criteria require ENG011 or required placement score and IDS102 or required placement score.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE MEDICAL INSTRUMENT STERILIZATION TECHNICIAN	3501

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

Medical Instrument Sterilization courses must be taken in the order listed below.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
MIS124	Medical Instrument Sterilization I	4	Pre- or Co-BIO101
MIS125	Medical Instrument Sterilization I/Directed Practice	2	Pre- or Co-BIO125 and Co-MIS124
BIO125	Medical Terminology	<u>3</u>	
		13	
<u>Second Semester</u>			
MIS126	Medical Instrument Sterilization II	4	MIS124
MIS127	Medical Instrument Sterilization II/Directed Practice	3	MIS125 and Co-MIS126
MIS123	Introduction to Surgical Terminology/Microbiology	3	MIS124
PHL122	Ethics	<u>3</u>	
		13	
<u>Summer</u>			
MIS222	Medical Instrument Sterilization III	2	MIS123 and MIS126
MIS223	Medical Instrument Sterilization III/Directed Practice	1	MIS127 and Co-MIS222
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		6	
	TOTAL CREDITS	32	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester.

Application criteria require ENG011 or required placement score and IDS102 or required placement score.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.



ASSOCIATE OF APPLIED SCIENCE EMERGENCY MEDICAL SERVICES

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

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Health and Human Services Division

Emergency Services Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EMS122	Paramedic I+	9	BIO101 and EMS121 and Co-EMS124	
EMS124	Paramedic I Clinical+	2	BIO101 and EMS121 and Co-EMS122	
EMS221	Paramedic II+	9	EMS122 and EMS124 and Co-EMS223	
EMS223	Paramedic II Clinical+	2	EMS122 and EMS124 and Co-EMS221	
EMS222	Paramedic III+	4	EMS221 and EMS223	
EMS224	Paramedic IV+	4	EMS222	
FST224	Legal Aspects of Fire Service	2		
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
EMS121	Emergency Medical Technician+#	7		
BIO101	Introduction to Anatomy and Physiology^+	3	IDS102 or Proficiency	
COM122	Interpersonal Communication	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
PHL122	Ethics	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
BIO125	Medical Terminology	3		
Total		33		
TOTAL CREDIT HOURS		65		

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

#EMS121 is a prerequisite for EMS122. A student can waive this course by showing proof of current State of Ohio EMT Certification. This certification is required for enrollment to the paramedic program.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides a scheduling option for full-time associate degree students who plan to finish in two years.

<u>Summer</u>		<u>Credit Hours</u>	<u>Pre and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EMS121	Emergency Medical Technician+#	7	
BIO101	Introduction to Anatomy and Physiology^+	<u>3</u>	IDS102 or Proficiency
		11	
<u>First Semester</u>			
EMS122	Paramedic I+	9	BIO101 and EMS121 and Co-EMS124
EMS124	Paramedic I Clinical+	2	BIO101 and EMS121 and Co-EMS122
FST224	Legal Aspects of Fire Service	<u>2</u>	
		13	
<u>Second Semester</u>			
EMS221	Paramedic II+	9	EMS122 and EMS124 and Co-EMS223
EMS223	Paramedic II Clinical+	2	EMS122 and EMS124 and Co-EMS221
ENG124	College Composition ^	<u>3</u>	ENG011 or Proficiency
		14	
<u>Summer</u>			
EMS222	Paramedic III+	<u>4</u>	EMS221 and EMS223
		4	
<u>Third Semester</u>			
COM122	Interpersonal Communication	3	
EMS224	Paramedic IV+	4	EMS222
MTH125	College Algebra^	4	(MTH093 and MTH094)++
			or Proficiency
BIO125	Medical Terminology	<u>3</u>	
		14	
<u>Fourth Semester</u>			
ITD122	Computer Applications for Professionals^	3	IDT100 or Proficiency
PSY121	General Psychology^	3	IDS102 or Proficiency
PHL122	Ethics	<u>3</u>	
		9	
	Total Credits	65	

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

#EMS121 is a prerequisite for EMS122. A student can waive this course by showing proof of current State of Ohio EMT Certification. This certification is required for enrollment to the paramedic program.



ASSOCIATE OF APPLIED SCIENCE EMERGENCY FIRE SERVICES

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

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Health and Human Services Division

Emergency Services Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
EMS122	Paramedic I	9	BIO101 and EMS121 and Co-EMS124	
EMS124	Paramedic I Clinical	2	BIO101 and EMS121 and Co-EMS122	
EMS221	Paramedic II	9	EMS122 and EMS124 and Co-EMS223	
EMS223	Paramedic II Clinical	2	EMS122 and EMS124 and Co-EMS221	
EMS222	Paramedic III	4	EMS221 and EMS223	
EMS224	Paramedic IV	4	EMS222	
FST228 or FST129 and FST230 or FST128 and FST 229 and FST 230	Fire Fighter 1 & 2++ or Take the Firefighter sequence of courses to obtain Firefighter Level 2 certification (Firefighter 1 and Firefighter 2)++ or Take the Firefighter sequence of courses to obtain Firefighter Level 2 certification (Volunteer, Firefighter 1Transition and Firefighter 2)++	11		
Total		41		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
EMS121	Emergency Medical Technician+#	7		
BIO101	Introduction to Anatomy and Physiology^+	3	IDS102 or Proficiency	
COM122	Interpersonal Communication	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
PHL122	Ethics	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
Total		30		
TOTAL CREDIT HOURS		71		

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

#EMS121 is a prerequisite for EMS122. A student can waive this course by showing proof of current State of Ohio EMT Certification. This certification is required for enrollment to the paramedic program.

Contact Fire Program Coordinator for equipment needs.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides a scheduling option for full-time associate degree students who plan to finish in two years.

<u>Summer</u>		<u>Credit Hours</u>	<u>Pre and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
EMS121	Emergency Medical Technician+#	7	
BIO101	Introduction to Anatomy & Physiology^+	<u>3</u>	IDS102 or Proficiency
		11	
<u>First Semester</u>			
EMS122	Paramedic I	9	BIO101 and EMS121 and Co-EMS124
EMS124	Paramedic I Clinical	<u>2</u>	BIO101 and EMS121 and Co-EMS122
		11	
<u>Second Semester</u>			
EMS221	Paramedic II	9	EMS122 and EMS124 and Co-EMS223
EMS223	Paramedic II Clinical	2	EMS122 and EMS124 and Co-EMS221
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		14	
<u>Summer</u>			
EMS222	Paramedic III	4	EMS221 and EMS223
ITD122	Computer Applications for Professionals^	3	IDT100 or Proficiency
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		10	
<u>Third Semester</u>			
EMS224	Paramedic IV	4	EMS222
MTH125	College Algebra^	4	(MTH093 and MTH094)++
			or Proficiency
COM122	Interpersonal Communication	<u>3</u>	
		11	
<u>Fourth Semester</u>			
FST228	Firefighter 1 & 2++	11	
PHL122	Ethics	<u>3</u>	
		14	
	Total Credits	71	

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

#EMS121 is a prerequisite for EMS122. A student can waive this course by showing proof of current State of Ohio EMT Certification. This certification is required for enrollment to the paramedic program.

Contact Fire Program Coordinator for equipment needs.



ASSOCIATE OF SCIENCE DIETETIC TECHNICIAN

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

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Health and Human Services Division

Therapy & Wellness Programs Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENGLISH COMPOSITION:				
ENG124	College Composition [^]	3	ENG105 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES:				
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
SOC225	Cultural Diversity	3		
ARTS & HUMANITIES: 9 credit hours minimum				
COM121	Effective Speaking (required)	3		
PHL122	Ethics (required)	3		
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
HIS121	U.S. History I – to 1877	3		
HIS122	U. S. History II – from 1877	3		
SCIENCES & MATHEMATICS:				
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
	Total	37		

[^]Based on SSC placement scores.

⁺⁺Minimum grade of “C” required.

#BIO121 and BIO122 can be substituted for BIO123.

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AREA OF CONCENTRATION COURSES: <i>All required.</i>				
DMA121	ServSafe	1		
NTR121	Basic Medical Nutrition [^]	3	IDS102 or Proficiency	
DTR121	Food Science Principles	3	CHM101 or One-Year HS CHM with “B” or higher	
DTR122	Life Cycle Nutrition	3	NTR121	
DTR123	Applied Nutrition	2	NTR121 and Co-DTR221 and DTR223	
DTR221	Medical Nutrition Therapy	3	NTR121 and Co-DTR123 and DTR223	
DTR223	Nutrition/MNT Directed Practice	2	Co-DTR123 and Co-DTR221	
DTR224	Cultural Nutrition	2	DTR221	
DTR225	Community Nutrition	3	DTR221 and Co-DTR226	
DTR226	Community Nutrition Directed Practice	2	Co-DTR225	
DTR227	Foodservice Operations I	3	DTR121 and Co-DMA121 and Co-DTR228	
DTR228	Dietary Systems	3	Co-DTR227	
DTR229	Professional Dietetics	1	DTR228	
DTR230	Foodservice Operations II	3	DTR227 and Co-DTR231	
DTR231	Foodservice Directed Practice	2	Co-DTR230	
	Total	36		
	TOTAL CREDIT HOURS	73		

[^]Based on SSC placement scores.

1516 Catalog Effective Summer 2015	DIETETIC TECHNICIAN	3560

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides a scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
BIO123	Principles of Human Structure and Function (lab)#	5	BIO101 or Proficiency
COM121	Effective Speaking	3	
<i>Art & Humanities Elective*</i>		3	<i>Check for prerequisites</i>
NTR121	Basic Medical Nutrition^	3	IDS 102 or Proficiency
DTR121	Food Science Principles	<u>3</u>	HS CHM or CHM101
		17	
<u>Second Semester</u>			
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	3	ENG105 or Proficiency
DTR122	Life Cycle Nutrition	3	NTR121
DTR123	Applied Nutrition	2	NTR121 and Co-DTR221 and Co-DTR223
DTR221	Medical Nutrition Therapy	3	NTR121 and Co-DTR123 and Co-DTR223
DTR223	Nutrition/MNT Directed Practice	<u>2</u>	Co-DTR123 and Co-DTR221
		17	
<u>Third Semester</u>			
ENG221	Technical Report Writing	3	ENG124
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		6	
<u>Fourth Semester</u>			
SOC225	Cultural Diversity	3	
DTR224	Cultural Nutrition	2	DTR221
DTR225	Community Nutrition	3	DTR221 and Co-DTR226
DTR226	Community Nutrition Directed Practice	2	Co-DTR225
DTR227	Foodservice Operations I	3	DTR121 and Co-DMA121 and Co-DTR228
DMA121	ServSafe	1	
DTR228	Dietary Systems	<u>3</u>	Co-DTR227
		17	
<u>Fifth Semester</u>			
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
SOC121	Sociology^	3	IDS102 or Proficiency
PHL122	Ethics	3	
DTR229	Professional Dietetics	1	DTR228
DTR230	Foodservice Operations II	3	DTR227 and Co-DTR231
DTR231	Foodservice Directed Practice	<u>2</u>	Co-DTR230
		16	
TOTAL CREDITS		73	

^Based on SSC placement scores.

++Minimum grade of "C" required.

#BIO121 and BIO122 can be substituted for BIO123.

*Arts & Humanities Elective – ENG233, ENG234, HIS121, or HIS122



ASSOCIATE OF SCIENCE DIETARY MANAGER

1516 Catalog
Effective Summer 2015

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and changes only when students change their major or request the change in writing.*

Health and Human Services Division

Therapy & Wellness Programs Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION:				
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
COM121	Effective Speaking	3		
SOCIAL & BEHAVIORAL SCIENCES:				
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3	PSY121	
ARTS & HUMANITIES: 6 credit hours minimum				
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
HIS121	U.S. History I – to 1877	3		
HIS122	U.S. History II – from 1877	3		
SCIENCES & MATHEMATICS				
<u>Natural and Physical Sciences:</u>				
BIO101	Intro to Anatomy & Physiology^	3	IDS102 or Proficiency	
CHM101	Intro to Chemistry^	4	(MTH093 and MTH094)++ or Proficiency	
BIO221	Principles of Microbiology	4	BIO122 or BIO123 or BIO141	
<u>Mathematics: 3 credit hours minimum</u>				
MTH105 or MTH125	Math for Allied Health^ or College Algebra^Ω	3 or 4	(MTH093 and MTH094)++ or Proficiency (MTH091 and MTH092)+ or Proficiency	
TOTAL		39-40		

^Based on SSC placement scores.

+Minimum grade of “B” required.

++Minimum grade of “C” required.

Ω MTH125 College Algebra or MTH124 should only be taken by students planning to transfer to a four-year institution.

#BIO121 and BIO122 may be substituted for BIO123

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
Concentration Core: All are required				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
BIO123	Principles of Human Structure and Function^#	5	BIO101 or Proficiency	
MAT124	Medical Law and Ethics	3		
DMA121	ServSafe	1		
DMA131	Foodservice I for the Dietary Manager^	4	[(MTH091 and MTH092)+ or Proficiency] and (IDS102 or Proficiency)	
DMA141	Nutrition for the Dietary Manager^	4	(IDS102 or Proficiency) and ITD122	
DMA151	Foodservice II for the Dietary Manager	4	DMA131	
TOTAL		24		
TOTAL CREDIT HOURS		63-64		

^Based on SSC placement scores.

+Minimum grade of "B" required.

#BIO121 and BIO122 may be substituted for BIO123

This coursework is in compliance with the requirements of the Association of Nutrition and Foodservice Professionals.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar [^]	1	<i>Take first semester</i>
IDT122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency
ENG124	College Composition [^]	3	ENG011 or Proficiency
PSY121	General Psychology [^]	3	IDS102 or Proficiency
DMA121	ServSafe	1	
DMA131	Foodservice I for the Dietary Manager [^]	<u>4</u>	[(MTH091 and MTH092)+ or
		15	Proficiency] and (IDS102 or Proficiency)
<u>Second Semester</u>			
DMA141	Nutrition for the Dietary Manager [^]	4	(IDS102 or Proficiency) and Co-ITD122
DMA151	Foodservice II for the Dietary Manager	4	DMA131
ENG221	Technical Report Writing	3	ENG124
BIO101	Introduction to Anatomy and Physiology [^]	3	IDS102 or Proficiency
CHM101	Introduction to Chemistry [^]	<u>4</u>	(MTH093 and MTH094)++
		18	or Proficiency
<u>Third Semester</u>			
BIO123	Principles of Human Structure and Function [^] #	5	BIO101 or Proficiency
COM121	Effective Speaking	3	
MTH105	Math for Allied Health [^]	3	(MTH093 and MTH094)++
or	or	or	or Proficiency
MTH125	College Algebra [^] Ω	4	(MTH091 and MTH092)+
			or Proficiency
SOC121	Sociology [^]	3	IDS102 or Proficiency
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		17-18	
<u>Fourth Semester</u>			
PSY122	Psychology of Adjustment	3	PSY121
MAT124	Medical Law & Ethics	3	
BIO221	Principles of Microbiology	4	BIO122 or BIO123 or BIO141
Arts & Humanities Elective ¹		<u>3</u>	<i>Check for prerequisites</i>
		13	
TOTAL CREDITS		63-64	

[^]Based on SSC placement scores.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

Ω MTH125 College Algebra or MTH124 should only be taken by students planning to transfer to a four-year institution.

#BIO121 and BIO122 may be substituted for BIO123

This coursework is in compliance with the requirements of the Association of Nutrition and Foodservice Professionals.



ONE-YEAR CERTIFICATE DIETARY MANAGER

1516 Catalog
Effective Summer 2015

3564

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Health and Human Services Division

Therapy & Wellness Programs Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
DMA121	ServSafe	1		
DMA131	Foodservice I for the Dietary Manager [^]	4	[(MTH091 and MTH092)+ or Proficiency] and (IDS102 or Proficiency)	
DMA141	Nutrition for the Dietary Manager	4	(IDS102 or Proficiency) and Co-ITD122	
DMA151	Foodservice II for the Dietary Manager	4	DMA131	
TOTAL		16		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
BIO101	Introduction to Anatomy & Physiology [^]	3	IDS102 or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
MTH125	College Algebra Ω [^]	4	(MTH093 and MTH094)++ or Proficiency	
or MTH105	or Math for Allied Health [^]	or 3	(MTH091 and MTH092)+ or Proficiency	
CHM101	Introduction to Chemistry [^]	4	(MTH093 and MTH094)++ or Proficiency	
Elective	Elective*	3	<i>Check for pre-requisites</i>	
TOTAL		17-18		
TOTAL CREDIT HOURS		33-34		

*Choose from Effective Speaking (COM121), General Psychology (PSY121), Sociology (SOC121), Cultural Diversity (SOC225), Ethics (PHL121), Medical Terminology (BIO125), or Technical Report Writing (ENG221).

Ω MTH125 College Algebra or MTH124 should only be taken by students planning to transfer to a four-year institution.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

^^To promote student success, this course should be taken in the first semester.

[^]Based on SSC placement scores.

This coursework is in compliance with the requirements of the Association of Nutrition and Foodservice Professionals.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE DIETARY MANAGER	3564

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Each student should make an appointment to see their advisor every semester before registering for classes. Please have your registration form completed, including the courses you wish to take, for this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
DMA121	ServSafe	1	
DMA131	Foodservice I for the Dietary Manager^	4	[(MTH091 and MTH092)+ or Proficiency] and (IDS102 or Proficiency)
MTH125	College Algebra Ω^	4	(MTH093 and MTH094)++ or Proficiency
or	or	or	
MTH105	Math for Allied Health^	3	(MTH091 and MTH092)+ or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		15-16	
<u>Second Semester</u>			
DMA141	Nutrition for the Dietary Manager	4	(IDS102 or Proficiency) and Co-ITD122
DMA151	Foodservice II for the Dietary Manager	4	DMA131
BIO101	Introduction to Anatomy and Physiology	3	IDS102 or Proficiency
CHM101	Introduction to Chemistry^	4	(MTH093 and MTH094)++ or Proficiency
<i>Elective*</i>		<u>3</u>	<i>Check for prerequisites</i>
		18	
TOTAL CREDITS		33-34	

*Choose from Effective Speaking (COM121), General Psychology (PSY121), Sociology (SOC121), Cultural Diversity (SOC225), Ethics (PHL121), Medical Terminology (BIO125), or Technical Report Writing (ENG221).

Ω MTH125 College Algebra or MTH124 should only be taken by students planning to transfer to a four-year institution.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

^^To promote student success, this course should be taken in the first semester.

^Based on SSC placement scores.

This coursework is in compliance with the requirements of the Association of Nutrition and Foodservice Professionals.



CAREER ENHANCEMENT CERTIFICATE

GERONTOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Health and Human Services Division

Human Services Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
GER121	Introduction to Gerontology++	3		
GER122	Psychosocial Aspects of Aging++	3		
	<i>Technical Elective 1: Select one (1) from list below*++</i>	2-5		
	<i>Technical Elective 2: Select one (1) from list below**++</i>	3-5		
	TOTAL CREDIT HOURS	11-16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

Credit Hours

Pre- and Co-requisites

GER121 Introduction to Gerontology++

3

GER122 Psychosocial Aspects of Aging++

3

Technical Elective 1++*

2-5

*Technical Elective 2**++*

3-5

TOTAL CREDITS

11-16

++Minimum grade of "C" required.

*Technical Electives 1: FIN123, FIN224, HIT230, ENG124, OTA223, PSY121, PSY123, SWK230

**Technical Elective 2: BIO121, BIO122, BIO101, BIO123, BIO127, ACC132, FIN222, MAT231



CAREER ENHANCEMENT CERTIFICATE

HUMAN AND SOCIAL SERVICES – CHEMICAL DEPENDENCY MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Health and Human Services Division

Human Services Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SWK125	Substance Abuse++^	3	IDS102 or Proficiency	
SWK225	Victimization and Crisis Intervention	3	ENG124	
CDC121	Chemical Dependency: Assessment and Treatment Planning++	3	SWK121 and SWK125	
CDC122	Fundamentals of Chemical Dependency Practice I++	3	SWK125	
CDC221	Chemical Dependency and the Family++	3	SWK125	
CDC222	Fundamentals of Chemical Dependency Practice II++	3	CDC122	
CDC223	Chemical Dependency and Prevention++	1	SWK125	
CDC224	Chemical Dependency and Ethics++	1	SWK125	
TOTAL CREDIT HOURS		20		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

SWK125	Substance Abuse++^	3	IDS102 or Proficiency
SWK225	Victimization and Crisis Intervention	<u>3</u>	ENG124
		6	

Second Semester

CDC121	Chemical Dependency: Assessment and Treatment Planning++	3	SWK121 and SWK125
CDC122	Fundamentals of Chemical Dependency Practice I++	3	SWK125
CDC223	Chemical Dependency and Prevention++	<u>1</u>	SWK125
		7	

Third Semester

CDC221	Chemical Dependency and the Family++	3	SWK125
CDC222	Fundamentals of Chemical Dependency Practice II++	3	CDC122
CDC224	Chemical Dependency and Ethics++	<u>1</u>	SWK125
		7	
TOTAL CREDITS		20	

^Based on SSC placement scores.

++Minimum grade of "C" required.



CAREER ENHANCEMENT CERTIFICATE POLICE SCIENCE

1516 Catalog

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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CJS140	Law Enforcement Academy I ^{^++}	8	IDS102 or Proficiency	
CJS240	Law Enforcement Academy II ^{^++}	8	CJS140	
TOTAL CREDIT HOURS		16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CJS140 Law Enforcement Academy I^{^++}

Credit Hours

8
8

Pre- and Co-requisites

IDS102 **or** Proficiency

Second Semester

CJS240 Law Enforcement Academy II^{^++}

8
8

CJS140

TOTAL CREDITS

16

[^]Based upon SSC placement score

⁺⁺Minimum grade of "C" required.

Note: Stark State College's Police Science Career Enhancement Certificate is for individuals interested in pursuing a career in law enforcement. This is an intensive, two-semester program.

Background checks are completed and submitted to BCI and FBI prior to acceptance into the Police Science certificate program. Individuals who have been convicted of a felony, domestic violence, or drug convictions will not be eligible for the Police Science program. Application packets are available through the Education, Liberal Arts, and Mathematics Division.

All instructors are certified by the Ohio Peace Officer Training Commission. Individuals who successfully complete the Police Science Career Enhancement Certificate program and pass the practical exercises are eligible to take the state (Ohio Basic Peace Officer Certification) examination.



CAREER ENHANCEMENT CERTIFICATE

DENTAL ASSISTING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Health and Human Services Division

Allied Dental Health Professions Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DAS121	Dental Assisting Techniques I**	3		
DAS122	Dental Assisting Radiography	2		
DAS123	Dental Assisting Techniques II	3	DAS121	
DAS124	Dental Assisting Materials	2		
DAS125	Dental Assisting Specialty#	3	DAS123	
DAS128	Introduction to Dental Terminology and Basic Anatomy	2		
TOTAL CREDIT HOURS		15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

DAS121 Dental Assisting Techniques I**

DAS122 Dental Assisting Radiography

DAS123 Dental Assisting Techniques II

DAS124 Dental Assisting Materials

DAS128 Introduction to Dental Terminology and Basic Anatomy

Credit Hours

3

2

3

2

2

12

Pre- and Co-requisites

DAS121

Second Semester

DAS125 Dental Assisting Specialty#

3

3

DAS 123

TOTAL CREDITS

15

**Course may be taken in conjunction with other technical courses, but must be taken in the first semester of technical course work.

#Applicants may select a dental assisting course option in which to gain specialized skills: Dental Office Management, Community Dentistry or Clinical Dental Assisting. Required course in the Associate of Science Degree in Dental Assisting.



CAREER ENHANCEMENT CERTIFICATE

EXPANDED FUNCTIONS DENTAL AUXILIARY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

3423

Health and Human Services Division

Allied Dental Health Professions Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DAS128	Introduction to Dental Terminology and Basic Anatomy*	2		
DAS225	Dental Morphology for the Expanded Functions Dental Auxiliary	2	Co-DAS226 and Co-DAS227	
DAS226	Expanded Dental Assisting I	2	Co-DAS225 and Co-DAS227	
DAS227	Expanded Dental Assisting II	3	Co-DAS225 and Co-DAS226	
DAS228	Directed Clinical Practice	5	DAS225 and DAS226 and DAS227	
TOTAL CREDIT HOURS		14		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
DAS128	Introduction to Dental Terminology and Basic Anatomy*	2	
DAS225	Dental Morphology for the Expanded Functions Dental Auxiliary	2	Co-DAS226 and Co-DAS227
DAS226	Expanded Dental Assisting I	2	Co-DAS225 and Co-DAS227
DAS227	Expanded Dental Assisting II	<u>3</u>	Co-DAS225 and Co-DAS226
		9	

Second Semester

DAS228	Directed Clinical Practice	<u>5</u>	DAS225 and DAS226 and DAS227
		5	
TOTAL CREDITS		14	

***Students demonstrating a minimum of one year of consecutive chair side experience or students who have successfully completed the first year of dental hygiene coursework may be exempt from taking DAS128.**

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CAREER ENHANCEMENT CERTIFICATE SPORTS MASSAGE SPECIALIST

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Health and Human Services Division

Therapy & Wellness Programs Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO121	Anatomy and Physiology I (lab) [^] ⁺ ⁺⁺	4	BIO101+ or Proficiency	
BIO122	Anatomy and Physiology II (lab) ⁺⁺	4	BIO121 or BIO123	
MAS121	Massage Therapy I ⁺	6		
MAS231	Sports Massage ⁺	2	MAS121	
NTR121	Basic Medical Nutrition [^] ⁺⁺	3	IDS102 or Proficiency	
PTA226	Functional Anatomy ⁺⁺	4	BIO123 or BIO122	
TOTAL CREDIT HOURS		23		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

BIO121 Anatomy and Physiology I (lab)[^]⁺⁺⁺
 MAS121 Massage Therapy I⁺

Credit Hours

4
6
10

Pre- and Co-requisites

BIO101+ **or** Proficiency

Second Semester

BIO122 Anatomy and Physiology II (lab)⁺⁺
 NTR121 Basic Medical Nutrition[^]⁺⁺

4
3
7

BIO121 **or** BIO123
 IDS102 **or** Proficiency

Third Semester

MAS231 Sports Massage⁺
 PTA226 Functional Anatomy⁺⁺

2
4
6

MAS121
 BIO123 **or** BIO122

TOTAL CREDITS

23

[^]Based on SSC placement scores.

⁺Minimum grade of "B" required.

⁺⁺Minimum grade of "C" required.

[^]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

***Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.
 Minimum grade of "C" in all non-technical courses in the program curriculum is required.
 Minimum grade of "B" in all MAS technical courses in the program curriculum is required.***



CAREER ENHANCEMENT CERTIFICATE MESSAGE TRANSITION TO LICENSURE

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Health and Human Services Division

Therapy & Wellness Programs Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226	
MAS230 or MAS226	Limited Branch Massage Therapy Review or Massage Therapy V	3 or 3	None MAS225 and MAS124	
MAS228	Professional Practice and Evaluation	1	MAS122	
HTD229	Massage Therapy Independent Study	1		
MAS122	Massage Therapy II	2	MAS121 and MAS123	
BIO123	Principles of Human Structure and Function	5	BIO101 or Proficiency	
TOTAL CREDIT HOURS		15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
MAS122	Massage Therapy II	2	MAS121 and MAS123
BIO123	Principles of Human Structure and Function	5	BIO101 or Proficiency
		7	

Second Semester

MAS223	Massage Therapy Review	3	(BIO122 or BIO123) and Co-MAS226
MAS230 or MAS226	Limited Branch Massage Therapy Review or Massage Therapy V	3 or 3	None MAS225 and MAS124
MAS228	Professional Practice and Evaluation	1	MAS122
HTD229	Massage Therapy Independent Study	1	
		8	
TOTAL CREDITS		15	

*Application criteria requires a "B" or better in BIO101 or HS BIO to apply to the Massage program.
Minimum grade of "C" in all non-technical courses in the program curriculum is required.
Minimum grade of "B" in all MAS technical courses in the program curriculum is required.*



CAREER ENHANCEMENT CERTIFICATE

MEDICAL INSTRUMENT STERILIZATION TECHNICIAN CERTIFICATE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Health and Human Services Division

Respiratory Care/Medical Instrument Sterilization Dept.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MIS124	Medical Instrument Sterilization I	4	BIO101 or Co-BIO101 <i>Advisor approval required</i>	
MIS126	Medical Instrument Sterilization II	4	MIS124	
MIS123	Introduction to Surgical Terminology/ Microbiology	3	MIS124	
MIS222	Medical Instrument Sterilization III	2	MIS123 and MIS126	
BIO101	Introduction to Anatomy & Physiology [^]	3	IDS102 or Proficiency	
TOTAL CREDIT HOURS		16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

BIO101	Introduction to Anatomy & Physiology [^]	3	IDS102 or Proficiency
MIS124	Medical Instrument Sterilization I	4	BIO101 or Co-BIO101 <i>Advisor approval required</i>
		7	

Second Semester

MIS126	Medical Instrument Sterilization II	4	MIS124
MIS123	Introduction to Surgical Terminology/Microbiology	3	MIS124
		7	

Third Semester

MIS222	Medical Instrument Sterilization III	2	MIS123 and MIS126
		2	
TOTAL CREDITS		16	

[^]Based upon SSC placement score.

Students are required to follow the program curriculum in effect when they begin taking technical courses, not when students are accepted to the College or program.

Minimum grade of "C" in all technical and non-technical courses in the program curriculum is required.

Students must be currently working in the field or have one year previous working experience in central service processing to apply.



CAREER ENHANCEMENT CERTIFICATE DIETARY MANAGER

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and changes only when students change their major or request the change in writing.*

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Health and Human Services Division

Therapy & Wellness Programs Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
DMA121	ServSafe	1		
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
DMA131	Foodservice I for the Dietary Manager^	4	[(MTH091 and MTH092)+ or Proficiency] and (IDS102 or Proficiency)	
DMA141	Nutrition for the Dietary Manager^	4	(IDS102 or Proficiency) and Co-ITD122	
DMA151	Foodservice II for the Dietary Manager	4	DMA131	
TOTAL CREDIT HOURS		17		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
DMA121	ServSafe	1	
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
DMA131	Foodservice I for the Dietary Manager^	<u>4</u>	[(MTH091 and MTH092)+ Proficiency] and (IDS102 or Proficiency)
		9	
<u>Second Semester</u>			
DMA141	Nutrition for the Dietary Manager	4	(IDS102 or Proficiency) and Co-ITD122
DMA151	Foodservice II for the Dietary Manager	<u>4</u>	DMA131
		8	
	TOTAL CREDITS	17	

^Based upon SSC placement score.

^^To promote student success, this course should be taken in the first semester.

This coursework is in compliance with the requirements of the Association of Nutrition and Food Service Professionals.



INFORMATION TECHNOLOGIES

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED BUSINESS

LEGAL ASSISTING

1516 Catalog

Effective Summer 2015

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The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AOT121	Keyboarding/Formatting	3		
AOT127	Word Processing – Microsoft Word [^]	3	AOT121 and (ITD100 or Proficiency)	
AOT129	Keyboarding Skill Building	1	AOT121	
AOT130	Editing, Proofreading and Language Skills	3		
AOT224	Legal Office Procedures	3	AOT121 and AOT130	
AOT226	Spreadsheet Microsoft Excel [^] ▲	3	ITD100 or Proficiency	
AOT235	Legal Research and Writing	3		
AOT237	Legal Office Applications	3	AOT239 and (AOT224 or PLS121)	
AOT239	Legal Transcription▲	3	AOT130 and Co-AOT129	
ITD122	Computer Applications for Professionals [^] ✱	3	ITD100 or Proficiency	
IRT131	Legal Terminology	3		
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
AOT132	Records Management [^]	3	IDS102 or Proficiency	
AOT232	AOT Practicum+++▲	2	AOT227 or AOT237	
ACC121	Principles of Accounting	3		
ACC130	Business Law & Ethics	3		
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
PSY121 or SOC121	General Psychology [^] or Sociology [^]	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
COM121	Effective Speaking	3		
ITD108	Microsoft Outlook [^]	1	IDS102 or Proficiency	
Total		31		
TOTAL CREDIT HOURS		62		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺Minimum grade of “B” required

✱ Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

▲ Course offerings vary by semester. Please see your academic advisor for availability.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT130	Editing, Proofreading and Language Skills	3	
AOT121	Keyboarding/Formatting	3	
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
IRT131	Legal Terminology	<u>3</u>	
		19	
<u>Second Semester</u>			
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
AOT129	Keyboarding Skill Building	1	AOT121
AOT239	Legal Transcription▲	3	AOT130 and Co-AOT129
AOT224	Legal Office Procedures	3	AOT121 and AOT130
AOT132	Records Management^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		16	
<u>Third Semester</u>			
AOT226	Spreadsheets Microsoft Excel^▲	3	ITD100 or Proficiency
AOT237	Legal Office Applications	3	AOT239 and (AOT224 or PLS121)
ACC130	Business Law & Ethics	3	
SOC225	Cultural Diversity	3	
ACC121	Principles of Accounting	<u>3</u>	
		15	
<u>Fourth Semester</u>			
COM121	Effective Speaking	3	
AOT232	AOT Practicum+++▲	2	AOT227 or AOT237
AOT235	Legal Research and Writing	3	
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	3	IDS102 or Proficiency
ITD108	Microsoft Outlook^	<u>1</u>	IDS102 or Proficiency
		12	
	TOTAL CREDITS	62	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

▲Course offerings vary by semester. Please see your academic advisor for availability.



ONE-YEAR CERTIFICATE LEGAL ASSISTING

1516 Catalog

Effective Summer 2015

2106

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AOT121	Keyboarding/Formatting	3		
AOT129	Keyboarding Skill Building	1	AOT121	
AOT130	Editing, Proofreading & Language Skills	3		
AOT224	Legal Office Procedures	3	AOT121 and AOT130	
AOT237	Legal Office Applications	3	AOT239 and (AOT224 or PLS121)	
AOT239	Legal Transcription▲	3	AOT130 and Co-AOT129	
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
IRT131	Legal Terminology	3		
Total		22		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency	
ACC130	Business Law & Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
Total		13		
TOTAL CREDIT HOURS		35		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT121	Keyboarding/Formatting	3	
AOT130	Editing, Proofreading & Language Skills	3	
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency
IRT131	Legal Terminology	<u>3</u>	
		16	
<u>Second Semester</u>			
AOT224	Legal Office Procedures	3	AOT121 and AOT130
AOT129	Keyboarding Skill Building	1	AOT121
SOC225	Cultural Diversity	3	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
AOT239	Legal Transcription▲	<u>3</u>	AOT130 and Co-AOT129
		13	
<u>Third Semester</u>			
AOT237	Legal Office Applications	3	AOT239 and (AOT224 or PLS121)
ACC130	Business Law & Ethics	<u>3</u>	
		6	
	TOTAL CREDITS	35	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

ADMINISTRATIVE OFFICE PROFESSIONAL

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Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD108	Microsoft Outlook [^]	1	IDS102 or Proficiency	
ITD122	Computer Applications for Professionals [^] ✱	3	ITD100 or Proficiency	
IMT122	Graphic Arts Design	3		
AOT121	Keyboarding/Formatting	3		
AOT127	Word Processing – Microsoft Word [^]	3	AOT121 and (ITD100 or Proficiency)	
AOT128	Desktop Publishing – Microsoft Publisher ▲	3	ITD122 and IMT122	
AOT129	Keyboarding Skill Building	1	AOT121	
AOT130	Editing, Proofreading & Language Skills	3		
AOT134	Form Design Essentials ▲	1		
AOT226	Spreadsheet – Microsoft Excel [^] ▲	3	ITD100 or Proficiency	
AOT236	Database Applications – Microsoft Access [^] ▲	3	ITD100 or Proficiency	
ACC121	Principles of Accounting	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
AOT132	Records Management [^]	3	IDS102 or Proficiency	
AOT227	Administrative Procedures & Systems ▲	3	ITD122 and AOT130 and (AOT121 or AOT129)	
AOT232	AOT Practicum+++ ▲	2	AOT227 or AOT237	
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
ACC130	Business Law & Ethics	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
PSY121 or SOC121	General Psychology [^] or Sociology [^]	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
COM121	Effective Speaking	3		
Total		30		
TOTAL CREDIT HOURS		60		

[^]Based on SSC placement score.

^{^^}To promote student success, this course should be taken in the first semester.

+Minimum grade of “B” required.

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT130	Editing, Proofreading & Language Skills	3	
AOT121	Keyboarding/Formatting	3	
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
IMT122	Graphic Arts Design	3	
AOT134	Form Design Essentials ▲	<u>1</u>	
		17	
<u>Second Semester</u>			
BUS121	Business Administration^	3	IDS102 or Proficiency
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
AOT129	Keyboarding Skill Building	1	AOT121
AOT128	Desktop Publishing – Microsoft Publisher ▲	3	ITD122 and IMT122
AOT132	Records Management^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		16	
<u>Third Semester</u>			
AOT226	Spreadsheets – Microsoft Excel^ ▲	3	ITD100 or Proficiency
AOT227	Administrative Procedures & Systems ▲	3	ITD122 and AOT130 and (AOT121 or AOT129)
ACC130	Business Law & Ethics	3	
SOC225	Cultural Diversity	3	
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	<u>3</u>	IDS102 or Proficiency
		15	
<u>Fourth Semester</u>			
ACC121	Principles of Accounting	3	
COM121	Effective Speaking	3	
AOT232	AOT Practicum+++ ▲	2	AOT227 or AOT237
AOT236	Database Applications – Microsoft Access^ ▲	3	ITD100 or Proficiency
ITD108	Microsoft Outlook^	<u>1</u>	IDS102 or Proficiency
		12	
	TOTAL CREDITS	60	

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+Minimum grade of “B” required.

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ONE-YEAR CERTIFICATE

ADMINISTRATIVE OFFICE PROFESSIONAL

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2122

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals^✳	3	ITD100 or Proficiency	
AOT121	Keyboarding/Formatting	3		
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)	
AOT130	Editing, Proofreading, and Language Skills	3		
AOT132	Records Management^	3	IDS102 or Proficiency	
AOT134	Form Design Essentials▲	1		
AOT226	Spreadsheet – Microsoft Excel^▲	3	ITD100 or Proficiency	
AOT227	Administrative Procedures and Systems▲	3	ITD122 and AOT130 and (AOT121 or AOT129)	
Total		22		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
PSY121 or SOC121	General Psychology^ or Sociology^	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
Total		13		
TOTAL CREDIT HOURS		35		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

✳Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE ADMINISTRATIVE OFFICE PROFESSIONAL	2122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT130	Editing, Proofreading, and Language Skills	3	
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
AOT121	Keyboarding/Formatting	3	
AOT134	Form Design Essentials▲	<u>1</u>	
		14	
<u>Second Semester</u>			
AOT132	Records Management^	3	IDS102 or Proficiency
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
AOT227	Administrative Procedures and Systems▲	3	ITD122 and AOT130 and (AOT121 or AOT129)
SOC225	Cultural Diversity	3	
PSY121 or	General Psychology^	<u>3</u>	IDS102 or Proficiency
SOC121	Sociology^	15	
<u>Third Semester</u>			
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
AOT226	Spreadsheets – Microsoft Excel^▲	<u>3</u>	ITD100 or Proficiency
		6	
TOTAL CREDITS		35	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

ADMINISTRATIVE OFFICE PROFESSIONAL – MANAGEMENT MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2123

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AOT121	Keyboarding/Formatting	3		
AOT127	Word Processing – Microsoft Word [^]	3	AOT121 and (ITD100 or Proficiency)	
AOT130	Editing, Proofreading and Language Skills	3		
AOT226	Spreadsheet – Microsoft Excel [^] ▲	3	ITD100 or Proficiency	
ITD122	Computer Applications for Professionals [^] ✱	3	ITD100 or Proficiency	
ACC121	Principles of Accounting	3		
ACC227	Payroll Accounting	3	ACC121 or ACC132	
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)	
MGT121	Principles of Management	3	BUS121 and ENT120	
MGT221	Supervision	3	MGT121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
AOT132	Records Management [^]	3	IDS102 or Proficiency	
AOT232	AOT Practicum+++▲	2	AOT227 or AOT237	
BUS121	Business Administration [^]	3	IDS102 or Proficiency	
MTH108	Explorations in Modern Mathematics [^]	3	(MTH091 and MTH092)+ or Proficiency	
ACC130	Business Law and Ethics	3		
AOT227	Administrative Procedures and Systems [^] ▲	3	ITD122 and AOT130 and (AOT121 or AOT129)	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
PSY121 or SOC121	General Psychology [^] or Sociology [^]	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
COM121	Effective Speaking	3		
ITD108	Microsoft Outlook [^]	1	IDS102 or Proficiency	
Total		31		
TOTAL CREDIT HOURS		61		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

▲Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ADMINISTRATIVE OFFICE PROFESSIONAL – MANAGEMENT MAJOR	2123

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT130	Editing, Proofreading and Language Skills	3	
AOT121	Keyboarding/Formatting	3	
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
		16	
<u>Second Semester</u>			
ACC121	Principles of Accounting	3	
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
MGT121	Principles of Management	3	BUS121 or ENT120
ITD108	Microsoft Outlook^	1	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
		13	
<u>Third Semester</u>			
AOT226	Spreadsheets – Microsoft Excel^▲	3	ITD100 or Proficiency
AOT227	Administrative Procedures and Systems▲	3	ITD122 and AOT130 and (AOT121 or AOT129)
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	3	IDS102 or Proficiency
MGT221	Supervision	3	MGT121
SOC225	Cultural Diversity	3	
ACC227	Payroll Accounting	3	ACC121 or ACC132
		18	
<u>Fourth Semester</u>			
ACC130	Business Law and Ethics	3	
COM121	Effective Speaking	3	
AOT132	Records Management^	3	IDS102 or Proficiency
AOT232	AOT Practicum+++▲	2	AOT227 or AOT237
ACC229	Computerized Accounting Applications	3	(AOT226 or ITD122) and (ACC121 or ACC132)
		14	
TOTAL CREDITS		61	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

▲Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

ADMINISTRATIVE OFFICE PROFESSIONAL – VIRTUAL OFFICE PROFESSIONAL MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2124

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
AOT121	Keyboarding/Formatting	3		
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
ACC121	Principles of Accounting	3		
IMT122	Graphic Arts Design	3		
AOT128	Desktop Publishing – Microsoft Publisher▲	3	ITD122 and IMT122	
AOT130	Editing, Proofreading and Language Skills	3		
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)	
AOT226	Spreadsheets – Microsoft Excel^+▲	3	ITD100 or Proficiency	
AOT236	Database Applications – Microsoft Access^▲	3	ITD100 or Proficiency	
AOT232	AOT Practicum+++▲	2	AOT227 or AOT237	
AOT240	Virtual Assistant Fundamentals▲	1	ITD122 and AOT130 and AOT121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BUS121	Business Administration^	3	IDS102 or Proficiency	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency	
AOT227	Administrative Procedures and Systems▲	3	ITD122 and AOT130 and (AOT121 or AOT129)	
ACC130	Business Law & Ethics	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
PSY121 or SOC121	General Psychology^ or Sociology^	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
COM122	Interpersonal Communications	3		
ENT120	Entrepreneurship^	3	IDS102 or Proficiency	
ITD108	Microsoft Outlook^	1	IDS102 or Proficiency	
AOT134	Form Design Essentials▲	1		
Total		30		
TOTAL CREDIT HOURS		60		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT130	Editing, Proofreading & Language Skills	3	
AOT121	Keyboarding/Formatting	3	
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency
IMT122	Graphic Arts Design	3	
AOT134	Form Design Essentials▲	1	
		17	
<u>Second Semester</u>			
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
ACC121	Principles of Accounting	3	
AOT128	Desktop Publishing – Microsoft Publisher▲	3	ITD122 and IMT122
ENT120	Entrepreneurship^	3	IDS102 or Proficiency
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
		15	
<u>Third Semester</u>			
BUS121	Business Administration^	3	IDS102 or Proficiency
AOT226	Spreadsheets – Microsoft Excel^▲	3	ITD100 or Proficiency
AOT227	Administrative Procedures and Systems▲	3	ITD122 and AOT130 and (AOT121 or AOT129)
AOT240	Virtual Assistant Fundamentals▲	1	ITD122 and AOT130 and AOT121
ACC130	Business Law & Ethics	3	
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	3	IDS102 or Proficiency
		16	
<u>Fourth Semester</u>			
SOC225	Cultural Diversity	3	
COM122	Interpersonal Communications	3	
AOT232	AOT Practicum+++▲	2	AOT227 or AOT237
AOT236	Database Applications – Microsoft Access^▲	3	ITD100 or Proficiency
ITD108	Microsoft Outlook^	1	IDS102 or Proficiency
		12	
TOTAL CREDITS		60	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

+++Legal Assisting should complete AOT237; AOP students should complete AOT227

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS TRAINING & DEVELOPMENT TECHNOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2128

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD104	Computer Applications – PowerPoint^	1	ITD100 or Proficiency	
AOT121	Keyboarding/Formatting	3		
IMT121	Interactive Media	3		
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency	
IMT129	Digital Audio Recording and Editing	3		
TDS121	Introduction to Training & Development	3		
TDS122	Training Logistics	3		
TDS123	Team Building Dynamics	3		
TDS124	Instructional Design for the Trainer	3	TDS121	
TDS221	Adobe Captivate – Presentation Skills Training	1		
TDS222	Web-based Learning	1	TDS221	
TDS223	ADDIE Capstone Course	3	TDS221	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ITD108	Microsoft Outlook^	1	IDS102 or Proficiency	
AOT127	Word Processing Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)	
COM226	Organizational Communication	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
AOT130	Editing, Proofreading & Language Skills	3		
COM121	Effective Speaking	3		
ITD123	MAC Concepts	1		
SOC225	Cultural Diversity	3		
MTH124	Statistics^	3	(MTH093 and MTH094)++ or Proficiency	
PSY124	Industrial/Organizational Psychology	3		
PHL122	Ethics	3		
Total		30		
TOTAL CREDIT HOURS		60		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of “C” required.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	
ITD108	Microsoft Outlook^	1	IDS102 or Proficiency
TDS121	Introduction to Training & Development	3	
TDS122	Training Logistics	3	
COM226	Organizational Communication	3	
TDS123	Team Building Dynamics	<u>3</u>	
		14	
<u>Second Semester</u>			
ITD104	Computer Applications – PowerPoint^	1	ITD100 or Proficiency
AOT121	Keyboarding/Formatting	3	
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
AOT130	Editing, Proofreading & Language Skills	3	
IMT121	Interactive Media	3	
TDS124	Instructional Design for the Trainer	<u>3</u>	TDS121
		16	
<u>Third Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
AOT226	Spreadsheet Microsoft Excel^▲	3	ITD100 or Proficiency
IMT129	Digital Audio Recording and Editing	3	
COM121	Effective Speaking	3	
TDS221	Adobe Captivate - Presentation Skills Training	1	
ITD123	MAC Concepts	<u>1</u>	
		14	
<u>Fourth Semester</u>			
SOC225	Cultural Diversity	3	
MTH124	Statistics^	3	(MTH093 and MTH094)++ or Proficiency
PSY124	Industrial/Organizational Psychology	3	
PHL122	Ethics	3	
TDS222	Web-based Learning	1	TDS221
TDS223	ADDIE Capstone Course	<u>3</u>	TDS221
		16	
	TOTAL CREDITS	60	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required.

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

JUDICIAL REPORTING & CAPTIONING – JUDICIAL REPORTING MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2151

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT121	Realtime Theory I	4		
IRT122	Realtime Theory II	4	IRT121	
IRT129	Speed Building I	4	IRT122	
IRT130	Speed Building II	4	IRT129	
IRT123	Speed Building III	4	IRT130	
IRT232	JRC Internship ▲	2	<i>Department Chair Approval</i>	
IRT231	Judicial Procedures ▲	3	IRT229 and (IRT122 or IRT133)	
IRT229	Realtime Software Applications ▲	3	IRT121 or IRT133	
IRT240	Short Writing Techniques	3	IRT122	
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^^	1	<i>Take first semester</i>	
IRT131	Legal Terminology	3		
BIO101	Introduction to Anatomy and Physiology ^	3	IDS102 or Proficiency	
BUS121	Business Administration ^	3	IDS102 or Proficiency	
ACC130	Business Law and Ethics	3		
ITD122	Computer Applications for Professionals ^*	3	ITD100 or Proficiency	
ENG124	College Composition ^	3	ENG011 or Proficiency	
MTH108	Explorations in Modern Mathematics ^	3	(MTH091 and MTH092)+ or Proficiency	
BIO125	Medical Terminology	3		
AOT130	Editing, Proofreading and Language Skills	3		
PSY121 or SOC121	General Psychology ^ or Sociology ^	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
Total		31		
TOTAL CREDIT HOURS		62		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Software/Machine

A computerized stenograph machine and Case Catalyst student version must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency
AOT130	Editing, Proofreading and Language Skills	3	
IRT121	Realtime Theory I	<u>4</u>	
		14	
<u>Second Semester</u>			
BIO125	Medical Terminology	3	
ACC130	Business Law and Ethics	3	
IRT131	Legal Terminology	3	
IRT122	Realtime Theory II	4	IRT121
IRT229	Realtime Software Applications▲	<u>3</u>	IRT121 or IRT133
		16	
<u>Summer Semester</u>			
IRT129	Speed Building I	4	IRT122
IRT240	Short Writing Techniques	<u>3</u>	IRT122
		7	
<u>Third Semester</u>			
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
IRT231	Judicial Procedures▲	3	IRT229 and (IRT122 or IRT133)
IRT130	Speed Building II	<u>4</u>	IRT129
		13	
<u>Fourth Semester</u>			
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
IRT123	Speed Building III	4	IRT130
IRT232	JRC Internship▲	2	<i>Department Chair Approval</i>
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	<u>3</u>	IDS102 or Proficiency
		12	
	TOTAL CREDITS	62	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

JUDICIAL REPORTING & CAPTIONING – BROADCAST CAPTIONING MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

2152

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT121	Realtime Theory I	4		
IRT122	Realtime Theory II	4	IRT121	
IRT129	Speed Building I	4	IRT122	
IRT130	Speed Building II	4	IRT129	
IRT123	Speed Building III	4	IRT130	
IRT232	JRC Internship▲	2	<i>Department Chair Approval</i>	
IRT230	Basic Broadcast Captioning▲	3	IRT122	
IRT235	Advanced Broadcast Captioning▲	3	IRT230	
IRT229	Realtime Software Applications▲	3	IRT121 or IRT133	
IRT240	Short Writing Techniques	3	IRT122	
Total		34		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
ACC130	Business Law & Ethics	3		
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency	
AOT130	Editing, Proofreading & Language Skills	3		
PSY121 or SOC1212	General Psychology^ or Sociology^	3	IDS102 or Proficiency	
ASL121	Introduction to the Deaf Culture & Community	3		
PSC121	Political Science	3		
Total		31		
TOTAL CREDIT HOURS		65		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Software/Machine

A computerized stenograph machine and Case Catalyst student version must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency
AOT130	Editing, Proofreading & Language Skills	3	
IRT121	Realtime Theory I	<u>4</u>	
		14	
<u>Second Semester</u>			
ACC130	Business Law & Ethics	3	
ASL121	Introduction to the Deaf Culture & Community	3	
IRT122	Realtime Theory II	4	IRT121
IRT229	Realtime Software Applications▲	<u>3</u>	IRT121 or IRT133
		13	
<u>Summer Semester</u>			
IRT129	Speed Building I	4	IRT122
IRT240	Short Writing Techniques	<u>3</u>	IRT122
		7	
<u>Third Semester</u>			
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
PSC121	Political Science	3	
IRT230	Basic Broadcast Captioning▲	3	IRT122
IRT130	Speed Building II	<u>4</u>	IRT129
		16	
<u>Fourth Semester</u>			
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
IRT123	Speed Building III	4	IRT130
IRT235	Advanced Broadcast Captioning▲	3	IRT230
IRT232	JRC Internship▲	2	<i>Department Chair Approval</i>
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
or	or		
SOC121	Sociology^		
		15	
	TOTAL CREDITS	65	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

JUDICIAL REPORTING & CAPTIONING – REALTIME TRANSCRIPTION MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

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Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT121	Realtime Theory I	4		
IRT122	Realtime Theory II	4	IRT121	
IRT129	Speed Building I	4	IRT122	
IRT130	Speed Building II	4	IRT129	
IRT131	Legal Terminology	3		
IRT231	Judicial Procedures ▲	3	IRT229 and (IRT121 or IRT133)	
IRT229	Realtime Software Applications ▲	3	IRT121 or IRT133	
AOT121	Keyboarding/Formatting	3		
AOT129	Keyboarding Skill Building	1	AOT121	
AOT239	Legal Transcription ▲	3	AOT130 and Co-AOT129	
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
ACC130	Business Law and Ethics	3		
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG230	Business Communication	3	ENG124	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency	
AOT130	Editing, Proofreading and Language Skills	3		
BIO125	Medical Terminology	3		
PSY121 or SOC121	General Psychology^ or Sociology^	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
Total		31		
TOTAL CREDIT HOURS		63		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Software/Machine

A computerized stenograph machine and Case Catalyst student version must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency
AOT130	Editing, Proofreading and Language Skills	3	
AOT121	Keyboarding/Formatting	3	
IRT121	Realtime Theory I	4	
		17	
<u>Second Semester</u>			
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
IRT131	Legal Terminology	3	
IRT122	Realtime Theory II	4	IRT121
IRT229	Realtime Software Applications▲	3	IRT121 or IRT133
		16	
<u>Summer Semester</u>			
IRT129	Speed Building I	4	IRT122
		4	
<u>Third Semester</u>			
ENG230	Business Communication	3	ENG124
AOT129	Keyboarding Skill Building	1	AOT121
IRT231	Judicial Procedures▲	3	IRT229 and (IRT121 or IRT133)
BUS121	Business Administration^	3	IDS102 or Proficiency
IRT130	Speed Building II	4	IRT129
		14	
<u>Fourth Semester</u>			
ACC130	Business Law and Ethics	3	
AOT239	Legal Transcription▲	3	AOT130 and Co-AOT129
BIO125	Medical Terminology	3	
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	3	IDS102 or Proficiency
		12	
	TOTAL CREDITS	63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

JUDICIAL REPORTING & CAPTIONING – SCOPIST MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

2154

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT133	Theory for Scopists	3		
IRT233	Transcription and Editing for Scopists ▲	3	IRT229 and IRT231 and (IRT133 or IRT122)	
AOT130	Editing, Proofreading and Language Skills	3		
IRT131	Legal Terminology	3		
IRT231	Judicial Procedures ▲	3	IRT229 and (IRT122 or IRT133)	
IRT229	Realtime Software Applications ▲	3	IRT121 or IRT133	
BIO125	Medical Terminology	3		
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
AOT121	Keyboarding/Formatting	3		
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency	
BUS121	Business Administration^	3	IDS102 or Proficiency	
ACC130	Business Law and Ethics	3		
ACC121	Principles of Accounting	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG230	Business Communication	3	ENG124	
ENT120	Entrepreneurship^	3	IDS102 or Proficiency	
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency	
PSC121	Political Science	3		
PSY121 or SOC121	General Psychology^ or Sociology^	3 or 3	IDS102 or Proficiency IDS102 or Proficiency	
Total		31		
TOTAL CREDIT HOURS		61		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Software

Case Catalyst student version must be purchased for this program. Please contact an academic advisor in the JRC program for more information.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
AOT130	Editing, Proofreading and Language Skills	3	
AOT121	Keyboarding/Formatting	3	
IRT131	Legal Terminology	3	
IRT133	Theory for Scopists	<u>3</u>	
		16	
<u>Second Semester</u>			
MTH108	Explorations in Modern Mathematics^	3	(MTH091 and MTH092)+ or Proficiency
BIO125	Medical Terminology	3	
ENG230	Business Communication	3	ENG124
ACC130	Business Law and Ethics	3	
ITD122	Computer Applications for Professionals^*	3	ITD100 or Proficiency
IRT229	Realtime Software Applications▲	<u>3</u>	IRT121 or IRT133
		18	
<u>Third Semester</u>			
BIO101	Introduction to Anatomy and Physiology^	3	IDS102 or Proficiency
BUS121	Business Administration^	3	IDS102 or Proficiency
PSC121	Political Science	3	
IRT231	Judicial Procedures▲	3	IRT229 and (IRT122 or IRT133)
ENT120	Entrepreneurship^	<u>3</u>	IDS102 or Proficiency
		15	
<u>Fourth Semester</u>			
ACC121	Principles of Accounting	3	
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
PSY121	General Psychology^	3	IDS102 or Proficiency
or	or	or	
SOC121	Sociology^	3	IDS102 or Proficiency
IRT233	Transcription and Editing for Scopists▲	<u>3</u>	IRT229 and IRT231 and (IRT133 or IRT122)
		12	
TOTAL CREDITS		61	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of “B” required

*Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS MANAGEMENT INFORMATION SYSTEMS

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5000

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CIS124	ITIL Foundations ▲	3	ITD122 or (ITD105 and ITD106)	
CIS125	Data Analysis and Decision Making ▲	3	ITD122 or (ITD105 and ITD106) and CPD121	
CIS221	Generating Reports for Decision Making ▲	3	CPD121	
CIS222	Data Acquisition and Analysis ▲	3	CPD121	
CIS223	IT Project Management ▲	3	ITD122 or (ITD105 and ITD106) and CPD121	
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121	
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CPD224	Advanced Microsoft SQL Server Database ▲	3	CPD222	
CPD225	Data Mining and Data Warehousing ▲	3	CPD121	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD105	Computer Applications – Excel^	1	ITD100 or Proficiency	
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	<i>Check for prerequisites</i>	
	Select one (1) Social Science Elective from the list below ²	3	<i>Check for prerequisites</i>	
Total		30		
TOTAL CREDIT HOURS		60		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		12	
<u>Second Semester</u>			
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122
CIS223	IT Project Management ▲	3	ITD122 or (ITD105 and ITD106) and CPD121
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121
ENG124	College Composition^	3	ENG011 or Proficiency
MTH106	Math for Technology^	<u>3</u>	(MTH091 or MTH092)+ or Proficiency
		15	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
<i>Social Science Elective²</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CIS124	ITIL Foundations ▲	3	ITD122 or (ITD105 and ITD106)
CIS125	Data Analysis and Decision Making ▲	3	ITD122 or (ITD105 and ITD106) and CPD121
CIS221	Generating Reports for Decision Making ▲	3	CPD121
CPD222	Microsoft SQL Server Database ▲	3	CPD121
CPD225	Data Mining and Data Warehousing ▲	<u>3</u>	CPD121
		15	
<u>Fourth Semester</u>			
CIS222	Data Acquisition and Analysis ▲	3	CPD121
CPD224	Advanced Microsoft SQL Server Database ▲	3	CPD222
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		12	
	TOTAL CREDITS	60	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED BUSINESS

1516 Catalog
Effective Summer 2015

MANAGEMENT INFORMATION SYSTEMS – HELP DESK/COMPUTER SUPPORT SPECIALIST MAJOR

5011

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CIS121	Help Desk and Computer Support Concepts [▲]	3	IDS102 or Proficiency	
CIS124	ITIL Foundations [▲]	3	ITD122 or (ITD105 and ITD106)	
CIS221	Generating Reports for Decision Making [▲]	3	CPD121	
CIS223	IT Project Management [▲]	3	ITD122 or (ITD105 and ITD106) and CPD121	
CPD222	Microsoft SQL Server Database [▲]	3	CPD121	
CPD225	Data Mining and Data Warehousing [▲]	3	CPD121	
CSE236	Analyzing Software Requirements and Developing Solutions [▲]	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
NET244	Microsoft Networking I	3	NET120 and NET121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CIS126	Fundamentals of Information Systems [▲]	3	(ITD105 and ITD106) or ITD122	
CPD121	Data Modeling and Database Design [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD105	Computer Applications - Excel [^]	1	ITD100 or Proficiency	
ITD106	Computer Applications - Access [^]	1	ITD100 or Proficiency	
ITD123	MAC Concepts	1		
MTH106	Math for Technology [^]	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		31		
TOTAL CREDIT HOURS		61		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

[▲] Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CIS121	Help Desk and Computer Support Concepts^▲	3	IDS102 or Proficiency
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency)
		15	and (ITD100 or Proficiency)
<u>Second Semester</u>			
CIS126	Fundamentals of Information Systems▲	3	(ITD105 and ITD106) or ITD122
CIS223	IT Project Management▲	3	ITD122 or (ITD105 and ITD106) and CPD121
ITD123	MAC Concepts	1	
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	3	
		13	
<u>Summer Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency
		6	
<u>Third Semester</u>			
CIS124	ITIL Foundations▲	3	ITD122 or (ITD105 and ITD106)
CIS221	Generating Reports for Decision Making▲	3	CPD121
CPD222	Microsoft SQL Server Database▲	3	CPD121
CPD225	Data Mining and Data Warehousing▲	3	CPD121
NET244	Microsoft Networking I	3	NET120 and NET121
		15	
<u>Fourth Semester</u>			
<i>Arts & Humanities Elective¹</i>		3	<i>Check for prerequisites</i>
<i>Social Science Elective²</i>		3	<i>Check for prerequisites</i>
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
CSE236	Analyzing Software Requirements and Developing Solutions▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
		12	
TOTAL CREDITS		61	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED BUSINESS

MANAGEMENT INFORMATION SYSTEMS – MEDICAL INFORMATICS MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5012

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CIS124	ITIL Foundations ▲	3	ITD122 or (ITD105 and ITD106)	
CIS125	Data Analysis and Decision Making ▲	3	ITD122 or (ITD105 and ITD106) and CPD121	
CIS221	Generating Reports for Decision Making ▲	3	CPD121	
CIS222	Data Acquisition and Analysis ▲	3	CPD121	
CIS223	IT Project Management ▲	3	ITD122 or (ITD105 and ITD106) and CPD121	
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121	
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
HIT123	Healthcare Legal and Ethical Issues	2	HIT230 or Co-HIT121‡	
HIT229	Health Information Systems and Technology	3	(HIT224 and ITD122) or CIS126	
HIT230	Healthcare Delivery in the U.S.	2		
Total		31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency	
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development ^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	<i>Check for prerequisites</i>	
	Select one (1) Social Sciences Elective from the list below ²	3	<i>Check for prerequisites</i>	
Total		30		
TOTAL CREDIT HOURS		61		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

‡ Students in the Medical Informatics Major are required to take HIT230, HIT121 is required for Health Information Management Students only.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Sciences Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

1516 Catalog Effective Summer 2015	MANAGEMENT INFORMATION SYSTEMS – MEDICAL INFORMATICS MAJOR	5012

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	and (ITD100 or Proficiency) (IDS102 or Proficiency) and (ITD100 or Proficiency)
HIT230	Healthcare Delivery in the U.S.	2	
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and
		12	(ITD100 or Proficiency)
<u>Second Semester</u>			
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122
HIT123	Healthcare Legal and Ethical Issues	2	HIT230 or Co-HIT121‡
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+
		13	or Proficiency
<u>Summer Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CIS124	ITIL Foundations ▲	3	ITD122 or (ITD105 and ITD106)
CIS125	Data Analysis and Decision Making ▲	3	ITD122 or (ITD105 and ITD106) and CPD121
CIS221	Generating Reports for Decision Making ▲	3	CPD121
CPD222	Microsoft SQL Server Database ▲	3	CPD121
<i>Social Sciences Elective²</i>		<u>3</u>	<i>Check for prerequisites</i>
		15	
<u>Fourth Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
CIS222	Data Acquisition and Analysis ▲	3	CPD121
CIS223	IT Project Management ▲	3	ITD122 or (ITD105 and ITD106) and CPD121
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
HIT229	Healthcare Information Systems and Technology	<u>3</u>	(HIT224 and ITD122) or CIS126
		15	
TOTAL CREDITS		61	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

‡ Students in the Medical Informatics Major are required to take HIT230, HIT121 is required for Health Information Management Students only.

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Sciences Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ONE-YEAR CERTIFICATE

COMPUTER MAINTENANCE & DESKTOP SUPPORT TECHNICIAN

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

5026

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CIS121	Help Desk and Computer Support Concepts [▲]	3	IDS102 or Proficiency	
CIS126	Fundamentals of Information Systems [▲]	3	(ITD105 and ITD106) or ITD122	
CPD222	Microsoft SQL Server Database [▲]	3	CPD121	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
NET131	Microsoft Client Operating System	3	NET120 and NET121	
NET244	Microsoft Networking I	3	NET120 and NET121	
	Total	21		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CPD121	Data Modeling and Database Design [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ITD105	Computer Applications - Excel [^]	1	ITD100 or Proficiency	
ITD106	Computer Applications - Access [^]	1	ITD100 or Proficiency	
ITD123	MAC Concepts	1		
MTH106	Math for Technology [^]	3	(MTH091 and MTH092)+ or Proficiency	
	Total	10		
TOTAL CREDIT HOURS		31		

[^]Based on SSC placement score.

^{^^}To promote student success, this course should be taken in the first semester.

+ Minimum grade of "B" required.

[▲] Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE COMPUTER MAINTENANCE & DESKTOP SUPPORT TECHNICIAN	5026

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>Summer Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisite</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency
CPD121	Data Modeling and Database Design^	<u>3</u>	(IDS102 or Proficiency) and (ID100 or Proficiency)
		7	
<u>Second Semester</u>			
CIS121	Help Desk and Customer Support Concepts^▲	3	IDS102 or Proficiency
CPD222	Microsoft SQL Server Database▲	3	CPD121
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	<u>3</u>	
		12	
<u>Third Semester</u>			
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
CIS126	Fundamentals of Information Systems▲	3	(ITD105 and ITD106) or ITD122
ITD123	MAC Concepts	1	
NET131	Microsoft Client Operating System	3	NET120 and NET121
NET244	Microsoft Networking I	<u>3</u>	NET120 and NET121
		12	
	TOTAL CREDITS	31	

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

+ Minimum grade of "B" required.

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

WEB DESIGN AND DEVELOPMENT

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

5100

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CSE229	Visual Basic Development ▲	3	CSE122	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
WDD122	Web Graphics Design ▲	3	WDD121	
WDD221	Web Development with JavaScript and AJAX ▲	3	WDD121	
WDD222	Advanced Cascading Style Sheets ▲	3	WDD121	
WDD223	Content Management System Design and Development ▲	3	CPD121 and WDD121	
WDD224	Active Server Page Development ▲	3	CSE122 and WDD121	
WDD225	Advanced Active Server Page Development ▲	3	WDD224	
WDD226	Web Development with PHP and MySQL ▲	3	CSE122 and WDD121	
WDD227	Advanced Web Development with PHP and MySQL ▲	3	WDD226	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
COM121	Effective Speaking	3	None	
or	or	or	or	
COM122	Interpersonal Communication	3	None	
or	or	or	or	
COM123	Small Group Communication	3	ENG124	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD102	Computer Applications – Word^	1	ITD100 or Proficiency	
ITD106	Computer Applications – Access^	1	ITD100 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD228	Search Engine Optimization	3	WDD121	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		30		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

1516 Catalog Effective Summer 2015	WEB DESIGN AND DEVELOPMENT	5100

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	and (ITD100 or Proficiency)
ENG124	College Composition^	3	(IDS102 or Proficiency)
ITD102	Computer Applications - Word^	1	and (ITD100 or Proficiency)
ITD106	Computer Applications - Access^	1	ENG011 or Proficiency
WDD121	Internet/Intranet Design and Development^	<u>3</u>	ITD100 or Proficiency
		15	(IDS102 or Proficiency)
			and (ITD100 or Proficiency)
<u>Second Semester</u>			
CSE229	Visual Basic Development ▲	3	CSE122
MTH106	Math for Technology^	3	(MTH091 and MTH092)+
WDD221	Web Development with JavaScript and AJAX ▲	3	or Proficiency
WDD222	Advanced Cascading Style Sheets ▲	3	WDD121
WDD224	Active Server Page Development ▲	<u>3</u>	WDD121
		15	CSE122 and WDD121
<u>Summer Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CPD222	Microsoft SQL Server Database ▲	3	CPD121
WDD122	Web Graphics Design ▲	3	WDD121
WDD225	Advanced Active Server Page Development ▲	3	WDD224
WDD226	Web Development with PHP and MySQL ▲	3	CSE122 and WDD121
WDD228	Search Engine Optimization ▲	<u>3</u>	WDD121
		15	
<u>Fourth Semester</u>			
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226)
<i>Social Sciences Elective²</i>		3	and CPD121
WDD223	Content Management System Design and Development ▲	3	<i>Check for prerequisites</i>
WDD227	Advanced Web Development with PHP and MySQL ▲	<u>3</u>	CPD121 and WDD121
		12	WDD226
	TOTAL CREDITS	63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED BUSINESS

WEB DESIGN AND DEVELOPMENT – WEB DESIGN MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

5104

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CIS223	IT Project Management ▲	3	ITD122 or (ITD105 and ITD106)) and CPD121	
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CSE121	Mobile Development Architecture ▲	3	Co-CSE122	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
WDD122	Web Graphics Design ▲	3	WDD121	
WDD123	Internet Design Tools ▲	3	WDD121	
WDD221	Web Development with JavaScript and AJAX ▲	3	WDD121	
WDD222	Advanced Cascading Style Sheets ▲	3	WDD121	
WDD223	Content Management Systems Design and Development ▲	3	CPD121 and WDD121	
WDD229	Advanced Web Design ▲	3	WDD122	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD102	Computer Applications - Word^	1	ITD100 or Proficiency	
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency	
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD228	Search Engine Optimization	3	WDD121	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		31		
TOTAL CREDIT HOURS		61		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

1516 Catalog	WEB DESIGN AND DEVELOPMENT – WEB DESIGN MAJOR	5104
Effective Summer 2015		

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
ITD102	Computer Applications - Word^	1	ITD100 or Proficiency
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		13	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency
WDD221	Web Development with JavaScript and AJAX▲	3	WDD121
WDD223	Content Management Systems Design & Dev▲	3	CPD121 and WDD121
WDD222	Advanced Cascading Style Sheets▲	<u>3</u>	WDD121
		15	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
<i>Social Sciences Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CPD222	Microsoft SQL Server Database▲	3	CPD121
CSE121	Mobile Development Architecture▲	3	Co-CSE122
WDD122	Web Graphics Design▲	3	WDD121
WDD123	Internet Design Tools▲	3	WDD121
WDD228	Search Engine Optimization	<u>3</u>	WDD121
		15	
<u>Fourth Semester</u>			
<i>Arts & Humanities Elective</i> ¹		3	<i>Check for prerequisites</i>
CIS223	IT Project Management▲	3	ITD122 or (ITD105 and ITD106)) and CPD121
CSE236	Analyzing Software Requirements and Developing Solutions▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
WDD229	Advanced Web Design▲	<u>3</u>	WDD122
		12	
	TOTAL CREDITS	61	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ONE-YEAR CERTIFICATE

WEB DESIGN

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

5125

Engineering Technologies/Information Technologies Division

Computer Science and Information Systems
Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
WDD122	Web Graphics Design ▲	3	WDD121	
WDD123	Internet Design Tools ▲	3	WDD121	
WDD223	Content Management Systems Design and Development ▲	3	CPD121 and WDD121	
WDD221	Web Development with JavaScript and AJAX ▲	3	WDD121	
WDD222	Advanced Cascading Style Sheets ▲	3	WDD121	
WDD228	Search Engine Optimization ▲	3	WDD121	
WDD229	Advanced Web Design ▲	3	WDD122	
Total		21		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^^	1	Take first semester	
CPD121	Data Modeling and Database Design	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
MTH106	Math for Technology ^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development ^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
Total		10		
TOTAL CREDIT HOURS		31		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE WEB DESIGN	5125

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>Summer Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency)
		7	and (ITD100 or Proficiency)
<u>Second Semester</u>			
CPD121	Data Modeling and Database Design	3	(IDS102 or Proficiency)
WDD122	Web Graphics Design ▲	3	and (ITD100 or Proficiency) WDD121
WDD123	Internet Design Tools ▲	3	WDD121
WDD228	Search Engine Optimization ▲	<u>3</u>	WDD121
		12	
<u>Third Semester</u>			
WDD221	Web Development with JavaScript and AJAX ▲	3	WDD121
WDD222	Advanced Cascading Style Sheets ▲	3	WDD121
WDD223	Content Management Systems Design and Development ▲	3	CPD121 and WDD121
WDD229	Advanced Web Design ▲	<u>3</u>	WDD122
		12	
	TOTAL CREDITS	31	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.



ASSOCIATE OF APPLIED BUSINESS

COMPUTER PROGRAMMING AND DATABASE

1516 Catalog

Effective Summer 2015

5200

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121	
CPD221	Oracle Database: PL/SQL Development ▲	3	CPD122 and CSE122	
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CPD223	Oracle Database: Architecture and Administration ▲	3	CPD122	
CPD224	Advanced Microsoft SQL Server Database ▲	3	CPD222	
CSE229	Visual Basic Development ▲	3	CSE122	
CSE230	Advanced Visual Basic Development ▲	3	CSE229	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
WDD226	Web Development with PHP and MySQL ▲	3	CSE122 and WDD121	
WDD227	Advanced Web Development w/PHP and MySQL ▲	3	WDD226	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency	
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3	None or None or ENG124	
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		30		
TOTAL CREDIT HOURS		60		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
			and (ITD100 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency)
			and (ITD100 or Proficiency)
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency)
			and (ITD100 or Proficiency)
		12	
<u>Second Semester</u>			
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121
CSE229	Visual Basic Development ▲	3	CSE122
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+
			or Proficiency
		12	
<u>Summer Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
COM121	Effective Speaking	3	None
or	or		or
COM122	Interpersonal Communication		None
or	or		or
COM123	Small Group Communication		ENG124
CPD222	Microsoft SQL Server Database ▲	3	CPD121
CPD221	Oracle Database: PL/SQL Development ▲	3	CPD122 and CSE122
CSE230	Advanced Visual Basic Development ▲	3	CSE229
WDD226	Web Development with PHP and MySQL ▲	<u>3</u>	CSE122 and WDD121
		15	
<u>Fourth Semester</u>			
CPD223	Oracle Database: Architecture and Admin ▲	3	CPD122
CPD224	Advanced Microsoft SQL Server Database ▲	3	CPD222
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226)
			and CPD121
<i>Social Science Elective²</i>		3	<i>Check for prerequisites</i>
WDD227	Advanced Web Development with PHP and MySQL ▲	<u>3</u>	WDD226
		15	
	TOTAL CREDITS	60	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ONE-YEAR CERTIFICATE DATABASE SYSTEMS

1516 Catalog
Effective Summer 2015

5204

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121	
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CPD224	Advanced Microsoft SQL Server Database ▲	3	CPD222	
WDD226	Web Development with PHP and MYSQL ▲	3	CSE122 and WDD121	
WDD227	Advanced Web Development with PHP and MYSQL ▲	3	WDD226	
TECHNICAL ELECTIVE: Choose one (1) course below.				
CPD225	Data Mining and Data Warehousing ▲	3	CPD121	
CIS221	Generating Reports for Decision Making ▲	3	CPD121	
Total		18		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
Total		13		
TOTAL CREDIT HOURS		31		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE DATABASE SYSTEMS	5204

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>Summer Semester</u>		<u>Credit Hours</u>	<u>Pre- or Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	and (ITD100 or Proficiency)
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency)
		10	and (ITD100 or Proficiency)
<u>First Semester</u>			
CPD222	Microsoft SQL Server Database▲	3	CPD121
MTH106	Math for Technology^	3	(MTH091 and MTH092)+
WDD226	Web Development with PHP and MYSQL▲	<u>3</u>	or Proficiency
		9	CSE122 and WDD121
<u>Second Semester</u>			
CPD122	Oracle Database: Introduction to SQL▲	3	CPD121
CPD224	Advanced Microsoft SQL Server Database▲	3	CPD222
WDD227	Advanced Web Development with PHP and MYSQL▲	3	WDD226
<i>Technical Electives #</i>		<u>3</u>	CPD121
		12	
TOTAL CREDITS		31	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

#Technical Elective: CPD225 or CIS221



ASSOCIATE OF APPLIED BUSINESS

COMPUTER PROGRAMMING AND DATABASE – GEOGRAPHIC INFORMATION SYSTEMS MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

5205

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CPD224	Advanced Microsoft SQL Server Database ▲	3	CPD222	
CSE229	Visual Basic Development ▲	3	CSE122	
CSE235	Python Development ▲	3	CSE122	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
GIS123	Maps and Map Reading ▲	3		
GIS231	Geographic Information Systems ▲	3	GIS123	
GIS232	Remote Sensing and Digital Image Processing ▲	3	GIS123	
GIS233	Advanced Tools in Geospatial Technologies ▲	3	GIS231 and GIS232	
GIS234	Geospatial Technologies in Industry ▲	3	GIS233	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
ITD105	Computer Applications – Excel^	1	ITD100 or Proficiency	
ITD106	Computer Applications – Access^	1	ITD100 or Proficiency	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
DET125	Basic AutoCAD	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Natural Science Elective from the list below ²	3-4	Check for prerequisites	
Total		30		
TOTAL CREDIT HOURS		60-61		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Natural Science Electives: BIO126, BIO128, BIO129, GEO141

1516 Catalog Effective Summer 2015	COMPUTER PROGRAMMING AND DATABASE – GEOGRAPHIC INFORMATION SYSTEMS MAJOR	5205

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD105	Computer Applications - Excel^	1	ITD100 or Proficiency
ITD106	Computer Applications - Access^	1	ITD100 or Proficiency
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
GIS123	Maps and Map Reading▲	3	
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		12	
<u>Second Semester</u>			
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
CSE229	Visual Basic Development▲	3	CSE122
GIS231	Geographic Information Systems▲	3	GIS123
GIS232	Remote Sensing and Digital Imaging Processing▲	3	GIS123
<i>Natural Science Elective³</i>		<u>3-4</u>	<i>Check for prerequisites</i>
		15-16	
<u>Summer Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		6	
<u>Third Semester</u>			
COM121	Effective Speaking	3	None
or	or		or
COM122	Interpersonal Communication		None
or	or		or
COM123	Small Group Communication		ENG124
CPD222	Microsoft SQL Server Database▲	3	CPD121
CSE235	Python Development▲	3	CSE122
DET125	Basic AutoCAD	3	
GIS233	Advanced Tools in Geospatial Technologies▲	<u>3</u>	GIS231 and GIS232
		15	
<u>Fourth Semester</u>			
CPD224	Advanced Microsoft SQL Server Database▲	3	CPD222
GIS234	Geospatial Technologies in Industry▲	3	GIS233
CSE236	Analyzing Software Requirements and Developing Solutions▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		12	
TOTAL CREDITS		60-61	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Natural Science Electives: BIO126, BIO128, BIO129, GEO141



ASSOCIATE OF APPLIED SCIENCE COMPUTER SCIENCE AND ENGINEERING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD222	Microsoft SQL Server Database ▲	3	CPD121	
CSE229	Visual Basic Development ▲	3	CSE122	
CSE230	Advanced Visual Basic Development ▲	3	CSE229	
CSE231	Java Programming ▲	3	CSE122	
CSE232	Advanced Java Programming ▲	3	CSE231	
CSE233	C++ Programming ▲	3	CSE122	
CSE234	Advanced C++ Programming ▲	3	CSE233	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
WDD224	Active Server Page Development ▲	3	CSE122 and WDD121	
WDD226	Web Development with PHP and MySQL ▲	3	CSE122 and WDD121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals ^	3	ITD100 or Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		33		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

Revised 2/2015

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	and (ITD100 or Proficiency)
ITD122	Computer Applications for Professionals^	3	(IDS102 or Proficiency)
WDD121	Internet/Intranet Design and Development^	<u>3</u>	and (ITD100 or Proficiency)
		13	and (ITD100 or Proficiency)
<u>Second Semester</u>			
CIS126	Fundamentals of Information Systems ▲	3	(ITD105 and ITD106) or ITD122
CSE229	Visual Basic Development ▲	3	CSE122
CSE231	Java Programming ▲	3	CSE122
CSE233	C++ Programming ▲	3	CSE122
ENG124	College Composition^	3	ENG011 or Proficiency
		15	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
<i>Social Science Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CPD222	Microsoft SQL Server Database ▲	3	CPD121
CSE230	Advanced Visual Basic Development ▲	3	CSE229
CSE232	Advanced Java Programming ▲	3	CSE231
CSE234	Advanced C++ Programming ▲	3	CSE233
WDD226	Web Development with PHP and MySQL ▲	<u>3</u>	CSE122 and WDD121
		15	
<u>Fourth Semester</u>			
<i>Arts & Humanities Elective</i> ¹		3	<i>Check for prerequisites</i>
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
MTH135	Precalculus^— A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++
WDD224	Active Server Page Development ▲	<u>3</u>	or Proficiency
		14	CSE122 and WDD121
	TOTAL CREDITS	63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED SCIENCE

COMPUTER SCIENCE & ENGINEERING – VIDEO GAME DESIGN AND DEVELOPMENT MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE227	Windows Programming with C# ▲	3	CSE122	
CSE231	Java Programming ▲	3	CSE122	
CSE232	Advanced Java Programming ▲	3	CSE231	
CSE233	C++ Programming ▲	3	CSE122	
CSE234	Advanced C++ Programming ▲	3	CSE233	
WDD230	Advanced Flash Animation and Design ▲	3	WDD124	
WDD231	Flash Actionscripting ▲	3	WDD124	
SGE221	Advanced Gaming and Simulation Topics ▲	3	CSE234	
SGE222	3D Game Design and Development ▲	3	SGE223	
SGE223	2D Game Design and Development ▲	3	CSE233	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^^	1	<i>Take first semester</i>	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CSE121	Mobile Development Architecture ▲	3	Co-CSE122	
CSE122	Programming Logic and Problem Solving ^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
SGE121	Game Design ^	3	IDS102 or Proficiency	
ENG124	College Composition ^	3	ENG011 or Proficiency	
MTH135	Precalculus ^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ++ or Proficiency	
WDD121	Internet/Intranet Design and Development ^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD124	Flash Animation and Design ▲	3	WDD121	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	<i>Check for prerequisites</i>	
	Select one (1) Social Science Elective from the list below ²	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, PSY122, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225

1516 Catalog Effective Summer 2015	COMPUTER SCIENCE & ENGINEERING – VIDEO GAME DESIGN AND DEVELOPMENT MAJOR	5253

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CSE121	Mobile Development Architecture ▲	3	Co-CSE122
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
SGE121	Game Design^	3	IDS102 or Proficiency
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		13	
<u>Second Semester</u>			
CSE231	Java Programming ▲	3	CSE122
CSE233	C++ Programming ▲	3	CSE122
ENG124	College Composition^	3	ENG011 or Proficiency
WDD124	Flash Animation and Design ▲	<u>3</u>	WDD121
		12	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
<i>Social Science Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Third Semester</u>			
CSE227	Windows Programming with C# ▲	3	CSE122
CSE232	Advanced Java Programming ▲	3	CSE231
CSE234	Advanced C++ Programming ▲	3	CSE233
SGE223	2D Game Design and Development ▲	3	CSE233
WDD230	Advanced Flash Animation and Design ▲	<u>3</u>	WDD124
		15	
<u>Fourth Semester</u>			
<i>Arts & Humanities Elective</i> ¹		3	<i>Check for prerequisites</i>
SGE221	Advanced Gaming and Simulation Topics ▲	3	CSE234
SGE222	3D Game Design and Development ▲	3	SGE223
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency
WDD231	Flash Actionscripting ▲	<u>3</u>	WDD124
		17	
	TOTAL CREDITS	63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of “C” required

▲ Course offerings vary by semester. Please see your academic advisor for availability

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, PSY122, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225



ASSOCIATE OF APPLIED SCIENCE

3D MOTION GRAPHICS TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

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Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT125	3D Graphics Modeling	3	IMT122	
IMT136	Principles of Animation	3		
IMT227	3D Graphics Animation	3	IMT136 and IMT125	
IMT237	Compositing	3	IMT223 or IMT125	
IMT240	Advanced 3D Graphics Modeling	3	IMT125	
IMT243	Advanced Compositing	3	IMT237	
IMT245	Graphic Arts Design II	3	IMT122	
IMT249	Textures and Effects for 2D and 3D Design	3	IMT125	
IMT265	Motion Graphics Portfolio	3	IMT268	
IMT268	Advanced Video Editing	3	IMT223	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO126	Science, Energy, and the Environment (lab)	4		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD123	Mac Concepts	1		
IMT121	Interactive Media	3		
IMT122	Graphic Arts Design	3		
IMT137	Drawing Basics	3		
IMT223	Digital Video Recording and Editing	3	IMT121	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Social Science Elective from the list below.²</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
IMT121	Interactive Media	3	
IMT122	Graphic Arts Design	3	
IMT136	Principles of Animation	3	
IMT137	Drawing Basics	<u>3</u>	
		13	
<u>Second Semester</u>			
ITD123	Mac Concepts	1	
IMT125	3D Graphics Modeling	3	IMT122
IMT223	Digital Video Recording and Editing	3	IMT121
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency
ENG124	College Composition^	<u>3</u>	ENG011 or Proficiency
		13	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		6	
<u>Third Semester</u>			
IMT227	3D Graphics Animation	3	IMT136 and IMT125
IMT237	Compositing	3	IMT223 or IMT125
IMT240	Advanced 3D Graphics Modeling	3	IMT125
IMT268	Advanced Video Editing	3	IMT223
IMT249	Textures and Effects for 2D and 3D Design	<u>3</u>	IMT125
		15	
<u>Fourth Semester</u>			
BIO126	Science, Energy, and the Environment (lab)	4	
IMT243	Advanced Compositing	3	IMT237
IMT245	Graphic Arts Design II	3	IMT122
IMT265	Motion Graphics Portfolio	3	IMT268
<i>Social Science Elective²</i>		<u>3</u>	<i>Check for prerequisites</i>
		16	
TOTAL CREDITS		63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

+Minimum grade of "B" required

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED SCIENCE

COMPUTER ENGINEERING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5350

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE233	C++ Programming ▲	3	CSE122	
CSE231	Java Programming ▲	3	CSE122	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
CSE232	Advanced Java Programming	3	CSE231	
EET227	PLC's & Industrial Controls I	3	EST230 or EET120	
EET228	PLC's & Industrial Controls II	3	EET227	
EET262	Pulse and Digital Integrated Circuits	4	CSE229 or CSE233	
EST230	Electrical Circuits and Devices^	4	(MTH093 and MTH094)++ or Proficiency	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
Total		32		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	Take first semester	
COM121	Effective Speaking	3	None	
or		or	or	
COM122	Interpersonal Communication	3	None	
or		or	or	
COM123	Small Group Communication	3	ENG124	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		31		
TOTAL CREDIT HOURS		63		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

1516 Catalog Effective Summer 2015	COMPUTER ENGINEERING	5350

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>	<u>Course Title</u>	<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency)
CSE122	Programming Logic and Problem Solving^	3	and (ITD100 or Proficiency)
ENG124	College Composition^	3	(IDS102 or Proficiency)
EST230	Electrical Circuits and Devices^	<u>4</u>	and (ITD100 or Proficiency)
			ENG011 or Proficiency
		<u>14</u>	(MTH093 and MTH094)++
			or Proficiency
<u>Second Semester</u>			
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
CSE231	Java Programming▲	3	CSE122
CSE233	C++ Programming▲	3	CSE122
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	<u>3</u>	
		<u>15</u>	
<u>Summer Semester</u>			
<i>Arts & Humanities Elective¹</i>		3	<i>Check for prerequisites</i>
<i>Social Science Elective²</i>		<u>3</u>	<i>Check for prerequisites</i>
		<u>6</u>	
<u>Third Semester</u>			
CSE232	Advanced Java Programming	3	CSE231
EET227	PLC's and Industrial Controls I	3	EST230 or EET120
EET262	Pulse and Digital Integrated Circuits	4	CSE229 or CSE233
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	(MTH093 and MTH094)++
		<u>15</u>	or Proficiency
<u>Fourth Semester</u>			
CSE236	Analyzing Software Requirements and Developing Solutions▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
EET228	PLC's and Industrial Controls II	3	EET227
ENG221	Technical Report Writing	3	ENG124
PHY121	College Physics I with Algebra (lab)	<u>4</u>	MTH135 or (MTH125 and MTH130)
		<u>13</u>	
	TOTAL CREDITS	63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED SCIENCE

COMPUTER NETWORK ADMINISTRATION & SECURITY TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5400

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NET131	Microsoft Client Operating System	3	NET120 and NET121	
NET137	Routing and Switching Essentials	3	NET121	
NET220	UNIX/LINUX Operating Environment [^]	3	(MTH093 and MTH094) ⁺⁺ or Proficiency	
NET244	Microsoft Networking I	3	NET120 and NET121	
NET245	Microsoft Networking II	3	NET244	
NET246	Microsoft Networking III	3	NET244	
NET264	UNIX/LINUX System Administration	3	NET220	
NET266	UNIX/LINUX Network Administration	3	NET220	
NET280	Web Server Administration	3	NET264 or NET266	
NET281	Firewall and Network Security	3	NET137	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CFS129	Cryptography	3		
CFS136	Principles of Information Security	3		
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
PHY101	Principles of Physics [^] (lab)	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
	<i>Select one (1) Arts & Humanities or Social Science Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

¹Arts & Humanities or Social Science Elective: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121

1516 Catalog Effective Summer 2015	COMPUTER NETWORK ADMINISTRATION & SECURITY TECHNOLOGY	5400

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	<u>3</u>	
		13	
<u>Second Semester</u>			
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
NET131	Microsoft Client Operating System	3	NET120 and NET121
NET137	Routing and Switching Essentials	3	NET121
NET220	UNIX/LINUX Operating Environment^	3	(MTH093 and MTH094)++ or Proficiency
NET244	Microsoft Networking I	<u>3</u>	NET120 and NET121
		16	
<u>Third Semester</u>			
CFS129	Cryptography	3	
COM121	Effective Speaking	<u>3</u>	
		6	
<u>Fourth Semester</u>			
CFS136	Principles of Information Security	3	
NET245	Microsoft Networking II	3	NET244
NET266	UNIX/LINUX Network Administration	3	NET220
PHY101	Principles of Physics^ (lab)	<u>4</u>	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
		13	
<u>Fifth Semester</u>			
NET246	Microsoft Networking III	3	NET244
NET264	UNIX/LINUX System Administration	3	NET220
NET280	Web Server Administration	3	NET264 or NET266
NET281	Firewall and Network Security	3	NET137
<i>Arts & Humanities or Social Science Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		15	
TOTAL CREDITS		63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities or Social Science Elective: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



ASSOCIATE OF APPLIED SCIENCE

COMPUTER NETWORK ADMINISTRATION & SECURITY TECHNOLOGY – UNIX/LINUX DATABASE ADMINISTRATION MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5402

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CFS275	Ethical Hacking	3	NET120 and NET220	
CPD121	Data Modeling and Database Design [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CPD122	Oracle Database: Introduction to SQL	3	CPD121	
CPD223	Oracle Database: Architecture and Administration	3	CPD122	
NET120	PC Upgrading and Maintenance	3		
NET131	Microsoft Client Operating System	3	NET120 and NET121	
NET220	UNIX/LINUX Operating Environment [^]	3	(MTH093 and MTH094) ⁺⁺ or Proficiency	
NET264	UNIX/LINUX System Administration	3	NET220	
NET266	UNIX/LINUX Network Administration	3	NET220	
NET280	Web Server Administration	3	NET264 or NET266	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
CFS129	Cryptography	3		
CFS136	Principles of Information Security	3		
COM121	Effective Speaking	3		
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
NET121	Introduction to Computer Networking	3		
PHY101	Principles of Physics [^] (lab)	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
	<i>Select one (1) Arts & Humanities or Social Science Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

¹Arts & Humanities or Social Science Elective: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121

1516 Catalog Effective Summer 2015	COMPUTER NETWORK ADMINISTRATION & SECURITY TECHNOLOGY – UNIX/LINUX DATABASE ADMINISTRATION MAJOR	5402

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CFS129	Cryptography	3	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
NET120	PC Upgrading and Maintenance	3	
NET121	Intro to Computer Networking	<u>3</u>	
		13	
<u>Second Semester</u>			
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
NET131	Microsoft Client Operating System	3	NET120 and NET121
NET220	UNIX/LINUX Operating Environment^	<u>3</u>	(MTH093 and MTH094)++ or Proficiency
		15	
<u>Third Semester</u>			
CFS136	Principles of Information Security	3	
MTH125	College Algebra^	<u>4</u>	(MTH093 and MTH094)++ or Proficiency
		7	
<u>Fourth Semester</u>			
COM121	Effective Speaking	3	
CPD122	Oracle Database: Introduction to SQL	3	CPD121
CFS275	Ethical Hacking	3	NET120 and NET220
NET266	UNIX/LINUX Network Administration	<u>3</u>	NET220
		12	
<u>Fifth Semester</u>			
CPD223	Oracle Database: Architecture and Administration	3	CPD122
NET264	UNIX/LINUX System Administration	3	NET220
NET280	Web Server Administration	3	NET264 or NET266
PHY101	Principles of Physics^ (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
			<i>Check for prerequisites</i>
<i>Arts & Humanities or Social Science Elective¹</i>		<u>3</u>	
		16	
TOTAL CREDITS		63	

¹Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Minimum grade of "C" required

¹Arts & Humanities or Social Science Elective: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



ASSOCIATE OF APPLIED SCIENCE

COMPUTER NETWORK ADMINISTRATION & SECURITY TECHNOLOGY – CISCO NETWORK ADMINISTRATION MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5403

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NET131	Microsoft Client Operating System	3	NET120 and NET121	
NET137	Routing and Switching Essentials	3	NET121	
NET220	UNIX/LINUX Operating Environment^	3	(MTH093 and MTH094)++ or Proficiency	
NET244	Microsoft Networking I	3	NET120 and NET121	
NET251	Voice over IP Fundamentals	3	NET137	
NET253	Securing Networks with Switches and Routers	3	NET137	
NET254	Cisco Wireless	3	NET137	
NET256	Scaling Networks	3	NET137	
NET257	Connecting Networks	3	NET137	
NET281	Firewall and Network Security	3	NET137	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
CFS129	Cryptography	3		
CFS136	Principles of Information Security	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
PHY101	Principles of Physics^ (lab)	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
	<i>Select one (1) Arts & Humanities or Social Science Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

^ Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities or Social Science Elective: BUS122, BUS221, BUS222, PSC121, PHL122, PSY121, PSY122, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC225

1516 Catalog Effective Summer 2015	COMPUTER NETWORK ADMINISTRATION & SECURITY TECHNOLOGY – CISCO NETWORK ADMINISTRATION MAJOR	5403

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CFS129	Cryptography	3	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	<u>3</u>	
		13	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
NET131	Microsoft Client Operating System	3	NET120 and NET121
NET137	Routing and Switching Essentials	3	NET121
NET220	UNIX/LINUX Operating Environment^	3	(MTH093 and MTH094)++ or Proficiency
MTH125	College Algebra^	<u>4</u>	(MTH093 and MTH094)++ or Proficiency
		16	
<u>Third Semester</u>			
CFS136	Principles of Information Security	3	
<i>Arts & Humanities or Social Science Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		6	
<u>Fourth Semester</u>			
NET244	Microsoft Networking I	3	NET120 and NET121
NET251	Voice over IP Fundamentals	3	NET137
NET256	Scaling Networks	3	NET137
PHY101	Principles of Physics^ (lab)	<u>4</u>	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
		13	
<u>Fifth Semester</u>			
COM121	Effective Speaking	3	
NET253	Securing Networks with Switches and Routers	3	NET137
NET254	Cisco Wireless	3	NET137
NET257	Connecting Networks	3	NET137
NET281	Firewall and Network Security	<u>3</u>	NET137
		15	
TOTAL CREDITS		63	

^ Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

¹Arts & Humanities or Social Science Elective: BUS122, BUS221, BUS222, PSC121, PHL122, PSY121, PSY122, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC225



ASSOCIATE OF APPLIED SCIENCE

CYBER SECURITY AND COMPUTER FORENSICS

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5450

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CFS136	Principles of Information Security	3		
CFS137	Computer Crime and Investigation	3	NET120	
CFS256	Disaster Recovery and Incident Planning	3		
CFS257	File Systems Analysis	3	CFS137	
CFS258	Cyber Forensics and Data Recovery	3	CFS257	
CFS275	Ethical Hacking	3	NET120 and NET220	
CFS287	Network Forensics	3	CFS137 and NET121 and NET220	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
NET220	UNIX/LINUX Operating Environment^	3	(MTH093 and MTH094)++ or Proficiency	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
ACC235	Forensic Accounting	3		
BIO126	Science, Energy, and the Environment (lab)	4		
CFS129	Cryptography	3		
CFS140	Biometric Applications	3		
CFS175	White Collar Crime	3		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
SOC225	Cultural Diversity	3		
Total		33		
TOTAL CREDIT HOURS		63		

^Based upon SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CFS136	Principles of Information Security	3	
COM121	Effective Speaking	3	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	<u>3</u>	
		16	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
CFS137	Computer Crime and Investigation	3	NET120
CFS140	Biometric Applications	3	
NET220	UNIX/LINUX Operating Environment^	3	(MTH093 and MTH094)++ or Proficiency
CFS175	White Collar Crime	<u>3</u>	
		15	
<u>Third Semester</u>			
CFS129	Cryptography	3	
SOC225	Cultural Diversity	<u>3</u>	
		6	
<u>Fourth Semester</u>			
BIO126	Science, Energy, and the Environment (lab)	4	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
CFS257	File Systems Analysis	3	CFS 137
CFS275	Ethical Hacking	<u>3</u>	NET120 and NET220
		14	
<u>Fifth Semester</u>			
ACC235	Forensic Accounting	3	
CFS256	Disaster Recovery and Incident Planning	3	
CFS258	Cyber Forensics and Data Recovery	3	CFS257
CFS287	Network Forensics	<u>3</u>	CFS137 and NET121 and NET220
		12	
	TOTAL CREDITS	63	

^Based upon SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Minimum grade of "C" required



ASSOCIATE OF APPLIED SCIENCE

MUSIC PRODUCTION AND ENGINEERING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5460

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT129	Digital Audio Recording and Editing	3		
IMT134	Technical Musicianship	3	IMT135	
IMT135	Music Theory and Composition I	3		
IMT239	Music Synthesis I	3	IMT129 and IMT247	
IMT246	Applied Music Technology	3	IMT250	
IMT247	Music Theory and Composition II	3	IMT135	
IMT250	Music Technology	3	IMT129	
IMT259	Music Synthesis II	3	IMT239	
IMT260	Live Sound	3	IMT129	
IMT261	Advanced Music Technology	3	IMT239 and Co-IMT246	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO126	Science, Energy, and the Environment (lab)	4		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
IMT121	Interactive Media	3		
IMT223	Digital Video Recording and Editing	3	IMT121	
IMT230	Webcasting and Music Publishing	3	IMT129	
IMT266	Film Theory and Practice	3	IMT121	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ITD123	MAC Concepts	1		
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Social Science Elective from the list below²</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
IMT121	Interactive Media	3	
IMT129	Digital Audio Recording and Editing	3	
IMT135	Music Theory and Composition I	3	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ITD123	MAC Concepts	<u>1</u>	
		14	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
IMT134	Technical Musicianship	3	IMT135
IMT223	Digital Video Recording and Editing	3	IMT121
IMT247	Music Theory and Composition II	3	IMT135
IMT250	Music Technology	<u>3</u>	IMT129
		15	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	
BIO126	Science, Energy, and the Environment (lab)	<u>4</u>	
		7	
<u>Third Semester</u>			
IMT239	Music Synthesis I	3	IMT129 and IMT247
IMT246	Applied Music Technology	3	IMT250
IMT260	Live Sound	3	IMT129
<i>Social Science Elective</i> ²		3	<i>Check for prerequisites</i>
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		15	
<u>Fourth Semester</u>			
IMT230	Webcasting	3	IMT129
IMT259	Music Synthesis II	3	IMT239
IMT261	Advanced Music Technology	3	IMT239 and Co-IMT246
IMT266	Film Theory and Practice	<u>3</u>	IMT121
		12	
TOTAL CREDITS		63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

²Social Science Electives: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED SCIENCE

COMPUTER SCIENCE & ENGINEERING – MOBILE APPLICATION DEVELOPMENT MAJOR

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

5475

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE221	Android Development 1 ▲	3	CSE231 and CSE121	
CSE222	iOS Development 1 ▲	3	CSE121	
CSE223	iOS Development 2 ▲	3	CSE222	
CSE224	Android Development 2 ▲	3	CSE221	
CSE225	Cross-Platform Mobile Application Development ▲	3	WDD222 and WDD221 and CSE221 and CSE222	
CSE226	Software Engineering For Handheld Devices ▲	3	CSE231	
CSE231	Java Programming ▲	3	CSE122	
CSE236	Analyzing Software Requirements and Developing Solutions ▲	3	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121	
WDD221	Web Development with JavaScript and Ajax ▲	3	WDD121	
WDD222	Advanced Cascading Style Sheets ▲	3	WDD121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Success Seminar^^	1	Take first semester	
COM121 or COM122 or COM123	Effective Speaking or Interpersonal Communication or Small Group Communication	3 or 3 or 3	None or None or ENG124	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE121	Mobile Development Architecture ▲	3	Co-CSE122	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals ^	3	ITD100 or Proficiency	
ITD123	Mac Concepts	1		
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
	Select one (1) Arts & Humanities Elective from the list below ¹	3	Check for prerequisites	
	Select one (1) Social Science Elective from the list below ²	3	Check for prerequisites	
Total		33		
TOTAL CREDIT HOURS		63		

^Based on SSC placement score

^^To promote, student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Elective: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221

1516 Catalog Effective Summer 2015	COMPUTER SCIENCE & ENGINEERING – MOBILE APPLICATION DEVELOPMENT MAJOR	5475

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ITD123	Mac Concepts	1	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
CSE121	Mobile Development Architecture▲	3	Co-CSE122
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
WDD121	Internet/Intranet Design and Development^	<u>3</u> 14	(IDS102 or Proficiency) and (ITD100 or Proficiency)
<u>Second Semester</u>			
CSE231	Java Programming▲	3	CSE122
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
WDD222	Advanced Cascading Style Sheets▲	3	WDD121
WDD221	Web Development with JavaScript and Ajax▲	<u>3</u> 13	WDD121
<u>Summer Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
<i>Social Science Elective²</i>		<u>3</u> 6	<i>Check for prerequisites</i>
<u>Third Semester</u>			
<i>Arts & Humanities Elective¹</i>		3	<i>Check for prerequisites</i>
COM121	Effective Speaking	3	None
or	or	or	or
COM122	Interpersonal Communication	3	None
or	or	or	or
COM123	Small Group Communication	3	ENG124
CSE221	Android Development 1▲	3	CSE231 and CSE121
CSE222	iOS Development 1▲	3	CSE121
ITD122	Computer Applications for Professionals^	<u>3</u> 15	ITD100 or Proficiency
<u>Fourth Semester</u>			
CSE223	iOS Development 2▲	3	CSE222
CSE224	Android Development 2▲	3	CSE221
CSE225	Cross-Platform Mobile Application Development▲	3	WDD222 and WDD221 and CSE221 and CSE222
CSE226	Software Engineering for Hand-Held Devices▲	3	CSE231
CSE236	Analyzing Software Requirements and Developing Solutions▲	<u>3</u> 15	(CIS221 or CSE229 or CSE233 or CSE231 or WDD221 or CSE227 or WDD224 or WDD222 or WDD226) and CPD121
TOTAL CREDITS		63	

^Based on SSC placement score

^^To promote, student success, this course should be taken in the first semester

++Minimum grade of "C" required

▲ Course offerings vary by semester. Please see your academic advisor for availability.

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

²Social Science Elective: PSC121, PSY121, SOC121, SOC225, PSY122, PSY123, PSY124, PSY221, SOC122, SOC123, SOC221



ASSOCIATE OF APPLIED SCIENCE COMPUTER GRAPHIC ARTS

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

5500

Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT122	Graphic Arts Design	3		
IMT125	3D Graphics Modeling	3	IMT122	
IMT132	Digital Photography	3		
IMT244	Digital Page Layout and Design	3	IMT131 and IMT253	
IMT245	Graphic Arts Design II	3	IMT122	
IMT253	Graphics for Illustration	3	IMT122	
IMT254	Portfolio Development	3	IMT244 and IMT245	
IMT255	Advanced Illustration	3	IMT253	
WDD121	Internet/Intranet Design and Development [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD222	Advanced Cascading Style Sheets	3	WDD121	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
BIO126	Science, Energy, and the Environment (lab)	4		
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENT120	Entrepreneurship	3		
IMT121	Interactive Media	3		
IMT131	Color Theory and Design	3		
IMT137	Drawing Basics	3		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
ITD123	MAC Concepts	1		
MTH106	Math for Technology [^]	3	(MTH091 and MTH092)+ or Proficiency	
SOC225	Cultural Diversity	3		
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
IMT122	Graphic Arts Design	3	
IMT131	Color Theory & Design	3	
IMT137	Drawing Basics	3	
ITD123	MAC Concepts	<u>1</u>	
		14	
<u>Second Semester</u>			
IMT121	Interactive Media	3	
IMT132	Digital Photography	3	
IMT245	Graphic Arts Design II	3	IMT122
IMT253	Graphics for Illustration	3	IMT122
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		15	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		6	
<u>Third Semester</u>			
BIO126	Science, Energy, and the Environment (lab)	4	
IMT125	3D Graphics Modeling	3	IMT122
IMT244	Digital Page Layout and Design	3	IMT131 and IMT253
IMT255	Advanced Illustration	3	IMT253
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS101 or Proficiency) and (ITD100 or Proficiency)
		16	
<u>Fourth Semester</u>			
ENT120	Entrepreneurship	3	
IMT254	Portfolio Development	3	IMT244 and IMT245
SOC225	Cultural Diversity	3	
WDD222	Advanced Cascading Style Sheets	<u>3</u>	WDD121
		12	
TOTAL CREDITS		63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required



ASSOCIATE OF APPLIED SCIENCE

COMPUTER GRAPHIC ARTS – DIGITAL PHOTOGRAPHY MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5501

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT122	Graphic Arts Design	3		
IMT132	Digital Photography	3		
IMT244	Digital Page Layout and Design	3	IMT131 and IMT253	
IMT245	Graphic Arts Design II	3	IMT122	
IMT253	Graphics for Illustration	3	IMT122	
IMT256	Digital Imaging	3	IMT122 and IMT132	
IMT262	Advanced Digital Photography	3	IMT132	
IMT263	Photographic Lighting	3	IMT132	
IMT264	Image Management	3	IMT132 and IMT262	
DPH280	Photography Portfolio	3	IMT263	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
BIO126	Science, Energy, and the Environment (lab)	4		
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENT120	Entrepreneurship	3		
IMT121	Interactive Media	3		
IMT131	Color Theory and Design	3		
IMT137	Drawing Basics	3		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
ITD123	MAC Concepts	1		
MTH106	Math for Technology [^]	3	(MTH091 and MTH092)+ or Proficiency	
SOC225	Cultural Diversity	3		
Total		33		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

1516 Catalog Effective Summer 2015	COMPUTER GRAPHIC ARTS – DIGITAL PHOTOGRAPHY MAJOR	5501

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
IMT122	Graphic Arts Design	3	
IMT132	Digital Photography	3	
ITD123	MAC Concepts	1	
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		14	
<u>Second Semester</u>			
IMT121	Interactive Media	3	
IMT131	Color Theory and Design	3	
IMT245	Graphic Arts Design II	3	IMT122
IMT253	Graphics for Illustration	3	IMT122
IMT263	Photographic Lighting	<u>3</u>	IMT132
		15	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	
ITD122	Computer Applications for Professionals^	<u>3</u>	ITD100 or Proficiency
		6	
<u>Third Semester</u>			
BIO126	Science, Energy, and the Environment (lab)	4	
IMT137	Drawing Basics	3	
IMT244	Digital Page Layout and Design	3	IMT131 and IMT253
IMT262	Advanced Digital Photography	<u>3</u>	IMT132
		13	
<u>Fourth Semester</u>			
DPH280	Photography Portfolio	3	IMT263
ENT120	Entrepreneurship	3	
IMT256	Digital Imaging	3	IMT122 and IMT132
IMT264	Image Management	3	IMT132 and IMT262
SOC225	Cultural Diversity	<u>3</u>	
		15	
	TOTAL CREDITS	63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required



ASSOCIATE OF APPLIED SCIENCE
HOMELAND SECURITY INFORMATION
TECHNOLOGY (National Security
Preparedness, Response, and Operations)

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

5525

Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CFS137	Computer Crime and Investigation	3	NET120	
CFS256	Disaster Recovery and Incident Planning	3		
CFS257	File System Analysis	3	CFS137	
CFS275	Ethical Hacking	3	NET120 and NET220	
HLS121	Introduction to Emergency Management	3		
HLS122	Intelligence and Homeland Security	3		
HLS123	Homeland Defense and Crisis Management	3		
HLS220	Weapons of Mass Destruction Awareness	3	HLS123	
HLS221	Terrorism and Homeland Defense	3	HLS122	
HLS225	Intelligence Analysis	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
BIO126	Science, Energy, and the Environment (lab)	4		
CFS140	Biometric Applications	3		
CFS136	Principles of Information Security	3		
CFS175	White Collar Crime	3		
COM121	Effective Speaking	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
MTH106	Math for Technology [^]	3	(MTH091 and MTH092)+ or Proficiency	
NET120	PC Upgrading and Maintenance	3		
NET220	UNIX/LINUX Operating System [^]	3	(MTH093 and MTH094)++ or Proficiency	
SOC225	Cultural Diversity	3		
Total		32		
TOTAL CREDIT HOURS		62		

[^]Based on SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

++Minimum grade of "C" required

1516 Catalog Effective Summer 2015	HOMELAND SECURITY INFORMATION TECHNOLOGY (National Security Preparedness, Response, and Operations)	5525

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
HLS121	Introduction to Emergency Management	3	
HLS122	Intelligence and Homeland Security	3	
HLS123	Homeland Defense and Crisis Management	3	
NET120	PC Upgrading and Maintenance	<u>3</u>	
		13	
<u>Second Semester</u>			
CFS136	Principles of Information Security	3	
CFS137	Computer Crime and Investigation	3	NET120
CFS140	Biometric Applications	3	
NET220	UNIX/LINUX Operating Systems^	3	(MTH093 and MTH094)++ or Proficiency
HLS220	Weapons of Mass Destruction Awareness	<u>3</u>	HLS123
		15	
<u>Third Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
BIO126	Science, Energy, and the Environment (lab)	<u>4</u>	
		7	
<u>Fourth Semester</u>			
CFS256	Disaster Recovery and Incident Planning	3	
CFS257	File Systems Analysis	3	CFS137
CFS275	Ethical Hacking	3	NET120 and NET220
HLS225	Intelligence Analysis	<u>3</u>	
MTH106	Math for Technology^	<u>3</u>	(MTH091 and MTH092)+ or Proficiency
		15	
<u>Fifth Semester</u>			
CFS175	White Collar Crime	3	
COM121	Effective Speaking	3	
HLS221	Terrorism and Homeland Defense	3	HLS122
SOC225	Culture Diversity	<u>3</u>	
		12	
	TOTAL CREDITS	62	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

++Minimum grade of "C" required



ASSOCIATE OF APPLIED SCIENCE

DIGITAL VIDEO MEDIA TECHNOLOGY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5550

Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT125	3D Graphics Modeling	3	IMT122	
IMT129	Digital Audio Recording and Editing	3		
IMT223	Digital Video Recording and Editing	3	IMT121	
IMT237	Compositing	3	IMT223 or IMT125	
IMT238	Advanced Video Production	3	IMT242	
IMT242	Lighting and Cinematography	3	IMT223	
IMT251	Authoring and Video Compression	3	IMT242	
IMT265	Motion Graphics Portfolio	3	IMT268	
IMT266	Film Theory and Practice	3	IMT121	
IMT268	Advanced Video Editing	3	IMT223	
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
BIO126	Science, Energy, and the Environment (lab)	4		
COM121	Effective Speaking	3		
ENG124	College Composition^	3	ENG011 or Proficiency	
ENT120	Entrepreneurship	3		
IMT121	Interactive Media	3		
IMT122	Graphic Arts Design	3		
IMT132	Digital Photography	3		
IMT137	Drawing Basics	3		
ITD123	MAC Concepts	1		
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency	
	<i>Select one (1) Arts & Humanities Elective from the list below¹</i>	3	<i>Check for prerequisites</i>	
Total		33		
TOTAL CREDIT HOURS		63		

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
ENG124	College Composition^	3	ENG011 or Proficiency
IMT121	Interactive Media	3	
IMT122	Graphic Arts Design	3	
IMT137	Drawing Basics	<u>3</u>	
		13	
<u>Second Semester</u>			
IMT129	Digital Audio Recording and Editing	3	
IMT132	Digital Photography	3	
IMT223	Digital Video Recording and Editing	3	IMT121
IMT266	Film Theory and Practice	3	IMT121
ITD123	MAC Concepts	<u>1</u>	
		13	
<u>Summer Semester</u>			
COM121	Effective Speaking	3	
MTH106	Math for Technology^	3	(MTH091 and MTH092)+ or Proficiency
BIO126	Science, Energy, and the Environment (lab)	<u>4</u>	
		10	
<u>Third Semester</u>			
ENT120	Entrepreneurship	3	
IMT125	3D Graphics Modeling	3	IMT122
IMT237	Compositing	3	IMT223 or IMT125
IMT242	Lighting and Cinematography	3	IMT223
IMT268	Advanced Video Editing	<u>3</u>	IMT223
		15	
<u>Fourth Semester</u>			
IMT238	Advanced Video Production	3	IMT242
IMT251	Authoring and Video Compression	3	IMT242
IMT265	Motion Graphics Portfolio	3	IMT268
<i>Arts & Humanities Elective¹</i>		<u>3</u>	<i>Check for prerequisites</i>
		12	
TOTAL CREDITS		63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

+ Minimum grade of "B" required

¹Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122



CAREER ENHANCEMENT CERTIFICATE

JUDICIAL REPORTING AND CAPTIONING – BROADCAST CAPTIONING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

2125

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

The *Broadcast Captioning Career Enhancement Certificate* in the Information Reporting Technology program is the outgrowth of the court reporting field and is a highly developed skill used to translate spoken communication into visual communication. Specially trained reporters use this technology to provide captions of live television programs such as news, emergency broadcasts, sports events, the Oscars and Emmys, and other live programs. Captions allow people who are deaf or hard of hearing – and there are 28 million of them in the U.S. alone – to understand TV broadcasts by displaying the spoken word onto the television screen through a combination of technology and reporting skill known as real-time translation. A stenotype machine is connected to a state-of-the-art computer with special closed-captioning software that allows the writer to caption the spoken word instantly.

Stark State College offers the *Broadcast Captioning Career Enhancement Certificate* entirely through distance learning. It affords students the opportunity to complete a college education via distance education from home and at their convenience. It also affords students the opportunity to learn with flexibility of time and place while maintaining access to faculty and other College services. E-Learning is a unique alternative to traditional on-campus courses. Stark State College offers nationally accredited online degrees, certificates, and more than 130 online courses.

Another college degree is recommended before enrolling in this certificate program, but is not required. Please contact Julie Hardgrove (330-966-5453, ext. 4358) or Rene Eneix (330-966-5453, ext. 4876) if you have further questions.

SOFTWARE/MACHINE – A computerized stenograph machine and Case Catalyst student version software must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT121	Realtime Theory I	4		
IRT122	Realtime Theory II	4	IRT121	
IRT129	Speed Building I	4	IRT122	
IRT130	Speed Building II	4	IRT129	
IRT123	Speed Building III	4	IRT130	
IRT230	Basic Broadcast Captioning▲	3	IRT122	
IRT235	Advanced Broadcast Captioning▲	3	IRT230	
	TOTAL CREDIT HOURS	26		

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE JUDICIAL REPORTING AND CAPTIONING – BROADCAST CAPTIONING	2125

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
IRT121	Realtime Theory I	<u>4</u> 4	
<u>Second Semester</u>			
IRT122	Realtime Theory II	<u>4</u> 4	IRT121
<u>Third Semester</u>			
IRT129	Speed Building I	<u>4</u> 4	IRT122
<u>Fourth Semester</u>			
IRT130	Speed Building II	4	IRT129
IRT230	Basic Broadcast Captioning ▲	<u>3</u> 7	IRT122
<u>Fifth Semester</u>			
IRT123	Speed Building III	4	IRT130
IRT235	Advanced Broadcast Captioning ▲	<u>3</u> 7	IRT230
TOTAL CREDITS		26	

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

JUDICIAL REPORTING AND CAPTIONING – REALTIME TRANSCRIPTION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

2126

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

Realtime transcriptionists who develop the ability to use the shorthand machine as the input device for text entry are availing themselves of a multitude of job opportunities. In the “Information Age,” companies are searching for staff that can input text at high accurate rates of speed. These companies are looking nationwide for well-trained information reporters who have good vocabulary, excellent English skills, good transcription skills, and the ability to turn their work around quickly.

The Realtime Transcription Option provides training to students on how to use the shorthand machine as an input device in lieu of the QWERTY keyboard and, therefore, produce text at lightning fast speeds. The steno strokes are translated as they are written using a stored dictionary, and the resulting English text is input directly into the selected PC application. Not only can the reporters write text, they can also use steno strokes to send commands to the operating system or the application. The reporter can conduct all word processing functions from the shorthand machine and produce the document in a timely fashion without ever touching the keyboard or the mouse.

Stark State College offers the *Realtime Transcription Career Enhancement Certificate* entirely through distance learning. It affords students the opportunity to complete a college education via distance education from home and at their convenience. It also affords students the opportunity to learn with flexibility of time and place while maintaining access to faculty and other College services. E-Learning is a unique alternative to traditional on-campus courses. Stark State College offers nationally accredited online degrees, certificates and more than 130 online courses.

Another college degree is recommended before enrolling in this certificate program, but is not required. Please contact Julie Hardgrove (330-966-5453, ext. 4358) or Rene Eneix (330-966-5453, ext. 4876) if you have further questions.

SOFTWARE/MACHINE – A computerized stenograph machine and Case Catalyst student version software must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT121	Realtime Theory I	4		
IRT122	Realtime Theory II	4	IRT121	
IRT129	Speed Building I	4	IRT122	
IRT130	Speed Building II	4	IRT129	
IRT229	Realtime Software Applications▲	3	IRT121 or IRT133	
	TOTAL CREDIT HOURS	19		

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE JUDICIAL REPORTING AND CAPTIONING – REALTIME TRANSCRIPTION	2126

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
IRT121	Realtime Theory I	4	
<u>Second Semester</u>			
IRT122	Realtime Theory II	4	IRT121
IRT229	Realtime Software Applications ▲	<u>3</u>	IRT121 or IRT133
		7	
<u>Third Semester</u>			
IRT129	Speed Building I	4	IRT122
<u>Fourth Semester</u>			
IRT130	Speed Building II	4	IRT129
	TOTAL CREDITS	19	

▲ Course offerings vary by semester. Please see your academic advisor for availability.

	CAREER ENHANCEMENT CERTIFICATE ADMINISTRATIVE SERVICES AND OFFICE APPLICATIONS – FORMATTING AND OFFICE SKILLS <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 2127

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
AOT121	Keyboarding/Formatting	3		
AOT129	Keyboarding Skill Building	1	AOT121	
AOT130	Editing, Proofreading, and Language Skills	3		
AOT132	Records Management^	3	IDS102 or Proficiency	
AOT127	Word Processing Microsoft Word	3	AOT121 and (ITD100 or Proficiency)	
	TOTAL CREDIT HOURS	16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
AOT121	Keyboarding/Formatting	3	
AOT130	Editing, Proofreading, and Language Skills	<u>3</u>	
		9	

Second Semester

AOT129	Keyboarding Skill Building	1	AOT121
AOT132	Records Management^	3	IDS102 or Proficiency
AOT127	Word Processing Microsoft Word	<u>3</u>	AOT121 and (ITD100 or Proficiency)
		7	
	TOTAL CREDITS	16	

^Based upon SSC placement score

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122



CAREER ENHANCEMENT CERTIFICATE

JUDICIAL REPORTING AND CAPTIONING – JUDICIAL REPORTING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

2155

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

Reporting has joined the ranks of the information technologies professions because computers are an integral part of information reporting. Official court reporters work for the judicial system to convert the spoken word into text during courtroom proceedings. The reporter also prepares official verbatim transcripts to be used by attorneys, judges, and litigants. Official court reporters are front and center at controversial or famous cases ensuring an accurate, complete, and secure record of the proceedings is produced. Official court reporters may also provide real-time translation during a courtroom setting to allow participants to read on a display screen or computer monitor what is being said instantaneously. Freelance reporters are hired by attorneys, corporations, unions, associations, and other individuals and groups who need accurate, complete and secure records of pretrial depositions, arbitrations, board of director meetings, stockholders meetings and convention business sessions.

Stark State College offers the *Judicial Reporting Career Enhancement Certificate* entirely through distance learning. It affords students the opportunity to complete a college education via distance education from home and at their convenience. It also affords students the opportunity to learn with flexibility of time and place while maintaining access to faculty and other College services. E-Learning is a unique alternative to traditional on-campus courses. Stark State College offers nationally accredited online degrees, certificates and more than 130 online courses.

Another college degree is recommended before enrolling in this certificate program, but is not required. Please contact Julie Hardgrove (330-966-5453, ext. 4358) or Rene Eneix (330-966-5453, ext. 4876) if you have further questions.

SOFTWARE/MACHINE – A computerized stenograph machine and Case Catalyst student version software must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT121	Realtime Theory I	4		
IRT122	Realtime Theory II	4	IRT121	
IRT129	Speed Building I	4	IRT122	
IRT130	Speed Building II	4	IRT129	
IRT123	Speed Building III	4	IRT130	
IRT229	Realtime Software Applications ▲	3	IRT121 or IRT133	
IRT231	Judicial Procedures ▲	3	IRT229 and (IRT122 or IRT133)	
IRT232	JRC Internship ▲	2	Department Chair Approval	
TOTAL CREDIT HOURS		28		

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE JUDICIAL REPORTING AND CAPTIONING – JUDICIAL REPORTING	2155

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
IRT121	Realtime Theory I	<u>4</u> 4	
<u>Second Semester</u>			
IRT122	Realtime Theory II	4	IRT121
IRT229	Realtime Software Applications ▲	<u>3</u> 7	IRT121 or IRT133
<u>Third Semester</u>			
IRT129	Speed Building I	<u>4</u> 4	IRT122
<u>Fourth Semester</u>			
IRT130	Speed Building II	4	IRT129
IRT231	Judicial Procedures ▲	<u>3</u> 7	IRT229 and (IRT122 or IRT133)
<u>Fifth Semester</u>			
IRT123	Speed Building III	4	IRT130
IRT232	JRC Internship ▲	<u>2</u> 6	<i>Department Chair Approval</i>
	TOTAL CREDITS	28	

▲ Course offerings vary by semester. Please see your academic advisor for availability.

	CAREER ENHANCEMENT CERTIFICATE ADMINISTRATIVE SERVICES AND OFFICE APPLICATIONS – DESKTOP PUBLISHING <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 2156

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
AOT128	Desktop Publishing – Microsoft Publisher ▲	3	ITD122 and IMT122	
IMT122	Graphic Arts Design	3		
AOT134	Form Design Essentials ▲	1		
	TOTAL CREDIT HOURS	10		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
IMT122	Graphic Arts Design	3	
AOT134	Form Design Essentials ▲	1	
		7	

Second Semester

AOT128	Desktop Publishing – Microsoft Publisher ▲	$\frac{3}{3}$	ITD122 and IMT122
	TOTAL CREDITS	10	

^Based upon SSC placement score

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

JUDICIAL REPORTING AND CAPTIONING - SCOPIST

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

2157

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

Scopists are hired by court reporters to edit and proofread transcripts while the reporters work in court or take depositions. According to the National Court Reporters Association (NCRA), there are an estimated 50,000 court reporters in the United States. Scoping is an ideal career for a person who prefers to work at home, and it provides flexibility in choosing how many hours you want to work.

The job of the Scopist is to edit the stenograph-to-English translation of the trial proceeding recorded by the reporter and check for any mistranslations in order to correct words such as proper names and any technical terms. A Scopist uses specialized reporting software to review, edit, and proofread the court transcript that can easily be transferred via online services.

Another college degree is recommended before enrolling in this certificate program, but is not required. Please contact Julie Hardgrove (330-966-5453, ext. 4358) or Rene Eneix (330-966-5453, ext. 4876) if you have further questions.

SOFTWARE/MACHINE – A computerized stenograph machine and Case Catalyst student version software must be purchased prior to beginning this program. Please contact an academic advisor in the JRC program for more information.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IRT133	Theory for Scopists	3		
IRT229	Realtime Software Applications ▲	3	IRT121 or IRT133	
IRT231	Judicial Procedures	3	IRT229 and (IRT122 or IRT133)	
IRT233	Transcription & Editing for Scopists	3	IRT229 and IRT231 and (IRT133 or IRT122)	
	TOTAL CREDIT HOURS	12		

▲ Course offerings vary by semester. Please see your academic advisor for availability.

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE JUDICIAL REPORTING AND CAPTIONING - SCOPIST	2157

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
IRT133	Theory for Scopists	3	
<u>Second Semester</u>			
IRT229	Realtime Software Applications ▲	3	IRT121 or IRT133
<u>Third Semester</u>			
IRT231	Judicial Procedures	3	IRT229 and (IRT122 or IRT133)
<u>Fourth Semester</u>			
IRT233	Transcription & Editing for Scopists	3	IRT229 and IRT231 and (IRT133 or IRT122)
	TOTAL CREDITS	12	

▲ Course offerings vary by semester. Please see your academic advisor for availability.

	CAREER ENHANCEMENT CERTIFICATE ADMINISTRATIVE SERVICES AND OFFICE APPLICATIONS – MICROSOFT APPLICATIONS PROFESSIONAL <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i> 	1516 Catalog Effective Summer 2025 5024

Engineering Technologies/Information Technologies Division Administrative Services & Office Applications Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency	
AOT121	Keyboarding/Formatting	3		
ITD108	Microsoft – Outlook	1		
AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)	
AOT226	Spreadsheet – Microsoft Excel^▲	3	ITD100 or Proficiency	
AOT236	Database Applications – Microsoft Access^▲	3	ITD100 or Proficiency	
	TOTAL CREDIT HOURS	16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ITD122	Computer Applications for Professionals^✱	3	ITD100 or Proficiency
AOT121	Keyboarding/Formatting	3	
ITD108	Microsoft – Outlook	<u>1</u>	
		7	

Second Semester

AOT127	Word Processing – Microsoft Word^	3	AOT121 and (ITD100 or Proficiency)
AOT226	Spreadsheet – Microsoft Excel^▲	3	ITD100 or Proficiency
AOT236	Database Applications – Microsoft Access^▲	<u>3</u>	ITD100 or Proficiency
		9	

TOTAL CREDITS

16

^Based upon SSC placement score

✱Successful completion of ITD102, ITD104, ITD105, and ITD106 is equivalent to and may be substituted for ITD122

▲Course offerings vary by semester. Please see your academic advisor for availability.

	CAREER ENHANCEMENT CERTIFICATE MANAGEMENT INFORMATION SYSTEMS – PROJECT MANAGEMENT <i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.</i>	1516 Catalog Effective Summer 2015 5013

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CIS124	ITIL Foundations	3	ITD122 or (ITD105 and ITD106)	
CIS126	Fundamentals of Information Systems	3	(ITD105 and ITD106) or ITD122	
CIS223	IT Project Management	3	[ITD122 or (ITD105 and ITD106)] and CPD121	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
CPD121	Data Modeling and Database Design^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		6	

Second Semester

CIS126	Fundamentals of Information Systems	3	(ITD105 and ITD106) or ITD122
CIS124	ITIL Foundations	3	ITD122 or (ITD105 and ITD106)
CIS223	IT Project Management	<u>3</u>	[ITD122 or (ITD105 and ITD106)] and CPD121
		9	

TOTAL CREDITS

15

^Based upon SSC placement score



CAREER ENHANCEMENT CERTIFICATE

MANAGEMENT INFORMATION SYSTEMS – HELP DESK AND COMPUTER USER SUPPORT

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5030

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CIS121	Help Desk and Computer Support Concepts^ ▲	3	IDS102 or Proficiency	
NET120	PC Upgrading and Maintenance	3		
NET121	Introduction to Computer Networking	3		
NET131	Microsoft Client Operating System	3	NET120 and NET121	
NET244	Microsoft Networking I	3	NET120 and NET121	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CIS121	Help Desk and Computer Support Concepts^ ▲	3	IDS102 or Proficiency
NET120	PC Upgrading and Maintenance	3	
NET121	Introduction to Computer Networking	<u>3</u>	
		9	

Second Semester

NET131	Microsoft Client Operating System	3	NET120 and NET121
NET244	Microsoft Networking I	<u>3</u>	NET120 and NET121
		6	

TOTAL CREDITS

15

^ Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

WEB DESIGN AND DEVELOPMENT – WEB DEVELOPMENT

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5105

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD122	Web Graphics Design ▲	3	WDD121	
WDD123	Internet Design Tools ▲	3	WDD121	
WDD124	Flash Animation and Design ▲	3	WDD121	
WDD125	Microsoft Expression Studio ▲	3	WDD121	
WDD230	Advanced Flash Animation and Design ▲	3	WDD124	
	TOTAL CREDIT HOURS	18		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		3	

Second Semester

WDD122	Web Graphics Design ▲	3	WDD121
WDD123	Internet Design Tools ▲	3	WDD121
WDD124	Flash Animation and Design ▲	<u>3</u>	WDD121
		9	

Third Semester

WDD125	Microsoft Expression Studio ▲	3	WDD121
WDD230	Advanced Flash Animation and Design ▲	<u>3</u>	WDD124
		6	

TOTAL CREDITS

18

^Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

WEB DESIGN AND DEVELOPMENT – ADVANCED WEB MASTER

1516 Catalog
Effective Summer 2015

5107

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CPD222	Microsoft SQL Server Database▲	3	CPD121	
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD121	Internet/Intranet Design and Development^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
WDD224	Active Server Page Development▲	3	CSE122 and WDD121	
WDD225	Advanced Active Server Page Development▲	3	WDD224	
WDD226	Web Development with PHP and MySQL▲	3	CSE122 and WDD121	
WDD227	Advanced Web Dev with PHP and MySQL▲	3	WDD226	
TOTAL CREDIT HOURS		24		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CSE122	Programming Logic and Problem Solving^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
WDD121	Internet/Intranet Design and Development^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		6	

Second Semester

WDD224	Active Server Page Development▲	3	CSE122 and WDD121
WDD226	Web Development with PHP and MySQL▲	<u>3</u>	CSE122 and WDD121
		6	

Third Semester

CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
WDD227	Advanced Web Development with PHP and MySQL▲	<u>3</u>	WDD226
		6	

Fourth Semester

CPD222	Microsoft SQL Server Database▲	3	CPD121
WDD225	Advanced Active Server Page Development▲	<u>3</u>	WDD224
		6	
TOTAL CREDITS		24	

^Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

COMPUTER PROGRAMMING AND DATABASE – MICROSOFT SQL SERVER

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog
Effective Summer 2015

5206

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CPD121	Data Modeling and Database Design^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CPD222	Microsoft SQL Server Database▲	3	CPD121	
CPD224	Advanced Microsoft SQL Server Database▲	3	CPD222	
	TOTAL CREDIT HOURS	9		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CPD121	Data Modeling and Database Design^	<u>Credit Hours</u> 3	<u>Pre- and Co-requisites</u> (IDS102 or Proficiency) and (ITD100 or Proficiency)

Second Semester

CPD222	Microsoft SQL Server Database▲	3	CPD121

Third Semester

CPD224	Advanced Microsoft SQL Server Database▲	<u>3</u>	CPD222

TOTAL CREDITS	9	

^Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

COMPUTER PROGRAMMING AND DATABASE – ORACLE DATABASE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5207

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CPD121	Data Modeling and Database Design [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CPD122	Oracle Database: Introduction to SQL ▲	3	CPD121	
CPD221	Oracle Database: PL/SQL Programming ▲	3	CPD122 and CSE122	
CPD223	Oracle Database: Architecture and Administration ▲	3	CPD122	
TOTAL CREDIT HOURS		15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
CPD121	Data Modeling and Database Design [^]	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		6	

Second Semester

CPD122	Oracle Database: Introduction to SQL ▲	<u>3</u>	CPD121
		3	

Third Semester

CPD221	Oracle Database: PL/SQL Programming ▲	<u>3</u>	CPD122 and CSE122
		3	

Fourth Semester

CPD223	Oracle Database: Architecture and Administration ▲	<u>3</u>	CPD122
		3	

TOTAL CREDITS	15

[^]Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

COMPUTER SCIENCE AND ENGINEERING – C++ / ASSEMBLY PROGRAMMING

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5255

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE233	C++ Programming ▲	3	CSE122	
CSE231	Java Programming ▲	3	CSE122	
CSE234	Advanced C++ Programming ▲	3	CSE233	
CSE228	Assembly Language Programming ▲	3	CSE233 or CSE231	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CSE122	Programming Logic and Problem Solving^	Credit Hours	Pre- and Co-requisites
		3	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		<u>3</u>	

Second Semester

CSE233	C++ Programming ▲	3	CSE122
CSE231	Java Programming ▲	<u>3</u>	CSE122
		6	

Third Semester

CSE234	Advanced C++ Programming ▲	3	CSE233
CSE228	Assembly Language Programming ▲	<u>3</u>	CSE233 or CSE231
		6	

TOTAL CREDITS

15

^Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

COMPUTER SCIENCE AND ENGINEERING – JAVA PROGRAMMING

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog
Effective Summer 2015

5257

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CSE122	Programming Logic and Problem Solving^	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
CSE231	Java Programming ▲	3	CSE122	
CSE232	Advanced Java Programming ▲	3	CSE231	
CSE226	Software Engineering for Handheld Devices ▲	3	CSE231	
TOTAL CREDIT HOURS		12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CSE122	Programming Logic and Problem Solving^	<u>3</u>	(IDS102 or Proficiency) and (ITD100 or Proficiency)
		3	

Second Semester

CSE231	Java Programming ▲	<u>3</u>	CSE122
		3	

Third Semester

CSE232	Advanced Java Programming ▲	3	CSE231
CSE226	Software Engineering for Handheld Devices ▲	<u>3</u>	CSE231
		6	

TOTAL CREDITS	12

^Based upon SSC placement score

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE

GEOGRAPHIC INFORMATION SYSTEMS – GEOSPATIAL TECHNOLOGY PROFESSIONAL

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

5576

Engineering Technologies/Information Technologies Division Computer Science and Information Systems Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
GIS123	Maps and Map Reading ▲	3		
GIS231	Geographic Information Systems ▲	3	GIS123	
GIS232	Remote Sensing and Digital Image Processing ▲	3	GIS123	
GIS233	Advanced Tools in Geospatial Technologies ▲	3	GIS231 and GIS232	
GIS234	Geospatial Technologies in Industry ▲	3	GIS233	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

GIS123 Maps and Map Reading ▲

Credit Hours

$\frac{3}{3}$

Pre- and Co-requisites

Second Semester

GIS231 Geographic Information Systems ▲
GIS232 Remote Sensing and Digital Image Processing ▲

$\frac{3}{3}$
6

GIS123
GIS123

Third Semester

GIS233 Advanced Tools in Geospatial Technologies ▲

$\frac{3}{3}$

GIS231 **and** GIS232

Fourth Semester

GIS234 Geospatial Technologies in Industry ▲

$\frac{3}{3}$

GIS233

TOTAL CREDITS

15

▲ Course offerings vary by semester. Please see your academic advisor for availability.



CAREER ENHANCEMENT CERTIFICATE UNIX/LINUX ADMINISTRATION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5405

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NET220	Unix/Linux Operating Environment^	3	MTH123 or Proficiency	
NET264	Unix/Linux System Administration	3	NET220	
NET266	Unix/Linux Network Administration	3	NET220	
TOTAL CREDIT HOURS		9		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

NET220	Unix/Linux Operating Environment^	3	MTH123 or Proficiency

Second Semester

NET264	Unix/Linux System Administration	3	NET220

Third Semester

NET266	Unix/Linux Network Administration	3	NET220

TOTAL CREDITS	9

^Based on SSC placement scores.



CAREER ENHANCEMENT CERTIFICATE PREPARATION FOR CISCO CCNA CERTIFICATION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Effective Summer 2015

5406

Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
NET120	PC Upgrading and Maintenance	3		
NET121	Intro to Computer Networking	3		
NET137	Routing and Switching Essentials	3	NET121	
NET256	Scaling Networks	3	NET137	
NET257	Connecting Networks	3	NET137	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

NET120 PC Upgrading and Maintenance
NET121 Intro to Computer Networking

Credit Hours

3
3
6

Pre- and Co-requisites

Second Semester

NET137 Routing and Switching Essentials

3
3

NET121

Third Semester

NET256 Scaling Networks
NET257 Connecting Networks

3
3
6

NET137
NET137

TOTAL CREDITS

15



CAREER ENHANCEMENT CERTIFICATE

COMMERCIAL MUSIC TECHNOLOGY – MUSIC PRODUCTION

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

5461

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT121	Interactive Media	3		
IMT129	Digital Audio Recording and Editing	3		
IMT135	Music Theory and Composition I	3		
IMT247	Music Theory and Composition II	3	IMT135	
IMT250	Music Technology	3	IMT129	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

IMT121 Interactive Media

3

IMT135 Music Theory and Composition I

3

IMT129 Digital Audio Recording and Editing

3

9

Second Semester

IMT247 Music Theory and Composition II

3

IMT135

IMT250 Music Technology

3

IMT129

6

TOTAL CREDITS

15



CAREER ENHANCEMENT CERTIFICATE

GRAPHIC DESIGN

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Effective Summer 2015

5502

Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT122	Graphic Arts Design	3		
IMT131	Color Theory and Design	3		
IMT137	Drawing Basics	3		
IMT253	Graphics for Illustration	3	IMT122	
TOTAL CREDIT HOURS		12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

IMT122	Graphic Arts Design	3
IMT131	Color Theory and Design	<u>3</u>
		6

Second Semester

IMT137	Drawing Basics	3	
IMT253	Graphics for Illustration	<u>3</u>	IMT122
		6	
TOTAL CREDITS		12	



CAREER ENHANCEMENT CERTIFICATE

DIGITAL PHOTOGRAPHY

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

5503

Engineering Technologies/Information Technologies Division

Information Security and Digital Media Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
IMT122	Graphic Arts Design	3		
IMT131	Color Theory and Design	3		
IMT132	Digital Photography	3		
IMT256	Digital Imaging	3	IMT122 and IMT132	
	TOTAL CREDIT HOURS	12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

IMT122 Graphic Arts Design

3

IMT131 Color Theory and Design

3

6

Second Semester

IMT132 Digital Photography

3

IMT256 Digital Imaging

3

IMT122 **and** IMT132

6

TOTAL CREDITS

12



CAREER ENHANCEMENT CERTIFICATE DISASTER RECOVERY PREPARATION

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

5526

Engineering Technologies/Information Technologies Division Information Security and Digital Media Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HLS121	Introduction to Emergency Management	3		
HLS122	Intelligence and Homeland Security	3		
CFS136	Principles of Information Security	3		
CFS256	Disaster Recovery and Incident Planning	3		
TOTAL CREDIT HOURS		12		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

HLS121 Introduction to Emergency Management

HLS122 Intelligence and Homeland Security

Credit Hours

3

3

6

Pre- and Co-requisites

Second Semester

CFS136 Principles of Information Security

CFS256 Disaster Recovery and Incident Planning

3

3

6

TOTAL CREDITS

12

The background of the entire page is a dense, repeating pattern of various icons in shades of gray. These icons represent a wide range of fields: science (microscopes, test tubes, DNA helices, light bulbs, gears, chemical structures, radiation symbols, satellites, and planets), medicine (stethoscopes, pills, bandages, and hands), technology (calculators, circuit boards, and signal waves), and general education (books, magnifying glasses, and light bulbs).

LIBERAL ARTS

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED SCIENCE TECHNICAL COMMUNICATIONS

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

1200

Education, Liberal Arts, and Mathematics Division

English and Modern Languages Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
ENG125	Technical Editing and Layout	3	ENG124	
ENG126	Technical Grammar and Style	3	ENG124	
ENG221	Technical Report Writing	3	ENG124	
COM223	Interviewing I	3	COM122	
ENG250	Technical Communications Internship	3	<i>Completed final semester</i>	
ENG227	Writing for Media	3	ENG124	
ENG228	Writing for the Web	3	ENG124	
ENG229	Grant Writing	3	ENG124	
TECHNICAL ELECTIVES: 3 credit hours minimum				
WDD121	Internet/Intranet Design & Development [^]	3	IDS101 or Proficiency	
AOT235	Legal Research and Writing	3		
IMT121	Interactive Media	3		
IMT122	Graphic Arts Design	3		
Total		30		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
COM122	Interpersonal Communication	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
MTH106 or MTH124	Math for Technology [^] or Statistics [^] Ω	3 or 3	(MTH091 and MTH092)+ or Proficiency MTH093++ or Proficiency	
	Select one (1) Arts & Humanities Elective from the list below ²	3	Check for prerequisites	
	Select two (2) Social Science Electives from the list below ³	6	Check for prerequisites	
	Select two (2) Basic Science Electives from the list below ⁴ ▲	7	Check for prerequisites	
	Select one (1) Communication Elective from the list below ⁵	3	Check for prerequisites	
Total		32		
TOTAL CREDIT HOURS		62		

[^]Based upon SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

⁺Minimum grade of "B" required.

⁺⁺Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

² Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122

³ Social Science Electives: BUS122, BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY221, SOC121, SOC123

⁴ Basic Science Electives: BIO101 (3), BIO121 (4), BIO126 (4), BIO127 (4), BIO128 (3), BIO129 (3), BIO130 (3), CHM101 (4), PHY101 (4)

⁵ Communication Elective: COM121, COM122, COM123, COM125

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-Requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ENG124	College Composition^	3	ENG011 or Proficiency
COM122	Interpersonal Communication	3	
<i>Communication Elective</i> ⁵		3	Check for prerequisites
MTH106	Math for Technology^	3	(MTH091 and MTH092)+
or	or	or	or Proficiency
MTH124	Statistics^ Ω	3	MTH093++ or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
		16	
<u>Second Semester</u>			
ENG231	College Composition II	3	ENG124
<i>Social Science Elective</i> ³		3	Check for prerequisites
<i>Basic Science Elective</i> ⁴ ▲		3	Check for prerequisites
ENG221	Technical Report Writing	3	ENG124
ENG227	Writing for Media	3	ENG124
		15	
<u>Third Semester</u>			
ENG125	Technical Editing and Layout	3	ENG124
ENG126	Technical Grammar and Style	3	ENG124
COM223	Interviewing I	3	COM122
<i>Basic Science Elective</i> ⁴ ▲		4	Check for prerequisites
<i>Arts & Humanities Elective</i> ²		3	Check for prerequisites
		16	
<u>Fourth Semester</u>			
ENG228	Writing for the Web	3	ENG124
ENG229	Grant Writing	3	ENG124
ENG250	Technical Communications Internship	3	Completed final semester
<i>Social Science Elective</i> ³		3	Check for prerequisites
<i>Technical Elective</i> ¹		3	Check for prerequisites
		15	
TOTAL CREDITS		62	

^Based upon SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

+Minimum grade of "B" required.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

Ω MTH124 should only be taken by students planning to transfer to a four-year institution.

¹ Technical Elective: AOT235, IMT121, IMT122, WDD121

² Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122

³ Social Science Electives: BUS122, BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY221, SOC121, SOC123

⁴ Basic Science Electives: BIO101 (3), BIO121 (4), BIO126 (4), BIO127 (4), BIO128 (3), BIO129 (3), BIO130 (3), CHM101 (4), PHY101 (4)

⁵ Communication Elective: COM121, COM122, COM123, COM125



ASSOCIATE OF APPLIED SCIENCE

POLICE SCIENCE

1516 Catalog
Effective Summer 2015

1300

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CJS140	Law Enforcement Academy I ^{^++}	8	IDS102 or Proficiency	
CJS240	Law Enforcement Academy II ⁺⁺	8	CJS140	
CJS121	Introduction to Criminal Justice	3		
CJS221	Criminology	3	CJS121	
CJS227	Criminal Justice Practicum and Seminar	3	CJS221	
TECHNICAL ELECTIVES: 6 credit hours minimum				
ACC235	Forensic Accounting	3		
CFS137	Computer Crime and Investigation	3	NET120 or ECA145	
CFS257	File Systems Analysis	3	CFS137 or ECA137	
CIS126	Fundamentals of Information Systems	3	ITD122 or (ITD105 and ITD106)	
CJS124	Policing	3	CJS121	
HLS121	Introduction to Emergency Management	3		
HLS122	Intelligence and Homeland Security	3		
HLS123	Homeland Defense and Crisis Management	3		
HLS220	Weapons of Mass Destruction	3	HLS123	
HLS225	Intelligence Analysis	3		
IRT131	Legal Terminology	3		
SWK125	Substance Abuse [^]	3	IDS102 or Proficiency	
	Total	31		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
PHL122	Ethics	3		
BIO125	Medical Terminology	3		
SOC225	Cultural Diversity	3		
	Select two (2) Social & Behavioral Sciences Electives from the list below ²	6	Check for prerequisites	
	Select one (1) Mathematics Elective from the list below ³	3	Check for prerequisites	
	Select one (1) Computer Technology Elective from the list below ⁴	3	Check for prerequisites	
	Total	31		
	TOTAL CREDIT HOURS	62		

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester.

⁺⁺Minimum grade of "C" required.

¹ **Technical Electives:** ACC235, CFS137, CFS257, CIS126, CJS124, HLS121, HLS122, HLS123, HLS220, HLS225, IRT131, SWK125

² **Social & Behavioral Sciences Electives:** PSC121, PSY121, PSY221, SOC121, SOC123, SOC221, SOC222

³ **Mathematics Elective:** MTH108 or MTH124

⁴ **Computer Technology Elective:** ITD122 or NET120

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time students who plan to finish in one year.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre-or Co-requisites</u>
SSC101	Student Success Seminar ^{^^} (required)	1	<i>Take first semester</i>
ENG124	College Composition [^]	3	ENG011 or Proficiency
CJS121	Introduction to Criminal Justice	3	
PHL122	Ethics	3	
<i>Computer Technology Elective</i> ⁴		3	<i>Check for prerequisites</i>
<i>Social & Behavioral Sciences Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		16	
<u>Second Semester</u>			
ENG231	College Composition II	3	ENG124
CJS221	Criminology	3	CJS121
<i>Technical Elective</i> ¹		3	<i>Check for prerequisites</i>
<i>Mathematics Elective</i> ³		3	<i>Check for prerequisites</i>
<i>Social & Behavioral Sciences Elective</i> ²		<u>3</u>	<i>Check for prerequisites</i>
		15	
<u>Third Semester</u>			
CJS140	Law Enforcement Academy I ^{^++}	8	IDS102 or Proficiency
SOC225	Cultural Diversity	3	
COM121	Effective Speaking	3	
<i>Technical Elective</i> ¹		<u>3</u>	<i>Check for prerequisites</i>
		17	
<u>Fourth Semester</u>			
CJS240	Law Enforcement Academy II ⁺⁺	8	CJS140
BIO125	Medical Terminology	3	
CJS227	Criminal Justice Practicum & Seminar	<u>3</u>	CJS221
		14	
TOTAL CREDITS		62	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester.

⁺⁺Minimum grade of "C" required.

¹ Technical Electives: ACC235, CFS137, CFS257, CIS126, CJS124, HLS121, HLS122, HLS123, HLS220, HLS225, IRT131, SWK125

² Social & Behavioral Sciences Electives: PSC121, PSY121, PSY221, SOC121, SOC123, SOC221, SOC222

³ Mathematics Elective: MTH108 or MTH124

⁴ Computer Technology Elective: ITD122 or NET120

Note: Stark State College Police Science program is for individuals interested in pursuing a career in law enforcement. Background checks are completed and submitted to BCI and FBI prior to acceptance into the Ohio Peace Officer Training Academy. Individuals who have been convicted of a felony or domestic violence will not be eligible for the Ohio Peace Officer Training Academy or the Police Science program. All OPOTA instructors are certified by the Ohio Peace Office Training Commission. Students who successfully complete the Ohio Peace Officer Training Academy and pass all practical exercises are eligible to take the Ohio Basic Peace Officer Certification Examination.



ONE-YEAR CERTIFICATE POLICE SCIENCE

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

1302

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CJS140	Law Enforcement Academy I ^{^++}	8	IDS102 or Proficiency	
CJS240	Law Enforcement Academy II ⁺⁺	8	CJS140	
CJS121	Introduction to Criminal Justice	3		
CJS221	Criminology	3	CJS121	
Total		22		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
Total		10		
TOTAL CREDIT HOURS		32		

[^]Based on SSC placement score.

^{^^}To promote student success, this course should be taken in the first semester.

⁺⁺Minimum grade of "C" required.

Note: Stark State College Police Science program is for individuals interested in pursuing a career in law enforcement. Background checks are completed and submitted to BCI and FBI prior to acceptance into the Ohio Peace Officer Training Academy. Individuals who have been convicted of a felony or domestic violence will not be eligible for the Ohio Peace Officer Training Academy or the Police Science program. All OPOTA instructors are certified by the Ohio Peace Office Training Commission. Students who successfully complete the Ohio Peace Officer Training Academy and pass all practical exercises are eligible to take the Ohio Basic Peace Officer Certification Examination.

1516 Catalog Effective Summer 2015	ONE-YEAR CERTIFICATE POLICE SCIENCE	1302

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for students seeking a one-year certificate.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CJS140	Law Enforcement Academy I^++	8	IDS102 or Proficiency
CJS121	Introduction to Criminal Justice	3	
COM121	Effective Speaking	<u>3</u>	
		15	
<u>Second Semester</u>			
CJS240	Law Enforcement Academy II^++	8	CJS140
ENG124	College Composition^	3	ENG011 or Proficiency
PSY121	General Psychology^	3	IDS102 or Proficiency
CJS221	Criminology	<u>3</u>	CJS121
		17	
TOTAL CREDITS		32	

^Based on SSC placement score.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

Note: Stark State College Police Science program is for individuals interested in pursuing a career in law enforcement. Background checks are completed and submitted to BCI and FBI prior to acceptance into the Ohio Peace Officer Training Academy. Individuals who have been convicted of a felony or domestic violence will not be eligible for the Ohio Peace Officer Training Academy or the Police Science program. All OPOTA instructors are certified by the Ohio Peace Office Training Commission. Students who successfully complete the Ohio Peace Officer Training Academy and pass all practical exercises are eligible to take the Ohio Basic Peace Officer Certification Examination.



ASSOCIATE OF ARTS CRIMINAL JUSTICE

1516 Catalog

Effective Summer 2015

1301

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>	
18COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
WRITTEN & ORAL COMMUNICATION: 9 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
COM123	Small Group Communication	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES: 12 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
PSC121	Political Science	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3	PSY121	
PSY220	Social Psychology	3	PSY121	
PSY221	Abnormal Psychology	3	PSY121	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
SOC222	Juvenile Delinquency	3	SOC121	
CRIMINAL JUSTICE: 18 credit hours required				
CJS121	Introduction to Criminal Justice	3		
CJS124	Policing	3	CJS121	
CJS129	Corrections	3	CJS121	
CJS221	Criminology	3	CJS121	
CJS222	Criminal Law in the United States	3	CJS121	
CJS223	Criminal Procedure	3	CJS121	
ARTS & HUMANITIES: 6 credit hours minimum				
PHL122	Ethics (required)	3		
ENG233	British Literature: Medieval to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester.

1516 Catalog Effective Summer 2015	CRIMINAL JUSTICE	1301

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
HIS221	World Civilization to 17th Century	3		
HIS222	World Civilization from 17th Century	3		
SCIENCES & MATHEMATICS				
<i>Natural & Physical Sciences: 6 semester credit hours minimum (1 lab course required)</i>				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, & the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org., and Biol. Chemistry I (lab)▲	4	HS CHM2 or CHM101	
CHM122	Gen., Org., and Biol. Chemistry II (lab)	4	CHM121	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
<i>Mathematics: 3 semester credit hours required</i>				
MTH124	Statistics^ (required)	3	MTH093++ or Proficiency	
ELECTIVES: 3 credit hours minimum				
ACC235	Forensic Accounting	3		
HLS121	Introduction to Emergency Management	3		
HLS122	Intelligence and Homeland Security	3		
HLS123	Homeland Defense and Crisis Management	3		
SWK125	Substance Abuse^	3	IDS102 or Proficiency	
SWK225	Victimization and Crisis Intervention	3	ENG124	
TOTAL CREDIT HOURS		61-63		

^Based on SSC placement scores

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and/or biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make appointments to meet with their advisors before registering for classes each semester. The student should determine his or her course preferences for the semester prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish the degree in two years.

Selection of Elective Courses

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

First Semester

SSC101	Student Success Seminar^^
ITD122	Computer Applications for Professionals^
ENG124	College Composition^
PHL122	Ethics
CJS121	Introduction to Criminal Justice
<i>Social & Behavioral Sciences Elective</i> ⁴	

Credit Hours

1
3
3
3
3
3
16

Pre-or Co-requisites

Take first semester
ITD100 **or** Proficiency
ENG011 **or** Proficiency

Check for prerequisites

Second Semester

MTH124	Statistics^
<i>Natural & Physical Sciences Elective</i> ^{▲2}	
<i>Social & Behavioral Sciences Elective</i> ⁴	
CJS124	Policing
CJS129	Corrections

3
3-4
3
3
3
15-16

MTH093++ **or** Proficiency
Check for prerequisites
Check for prerequisites
CJS121
CJS121

Third Semester

<i>Natural & Physical Sciences Elective</i> ^{▲2}	
<i>Written & Oral Communication Elective</i> ³	
SOC225	Cultural Diversity
CJS221	Criminology
CJS222	Criminal Law in the United States

3-4
3
3
3
3
15-16

Check for prerequisites
Check for prerequisites

CJS121
CJS121

Fourth Semester

<i>Arts & Humanities Elective</i> ¹	
<i>Written & Oral Communication Elective</i> ³	
<i>Social & Behavioral Sciences Elective</i> ⁴	
<i>Elective</i> ⁵	
CJS223	Criminal Procedure

3
3
3
3
3
15

Check for prerequisites
Check for prerequisites
Check for prerequisites
Check for prerequisites
CJS121

TOTAL CREDITS**61-63**

[▲]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester.

⁺⁺Minimum grade of "C" required.

¹ Arts and Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222

² Natural & Physical Sciences Electives: BIO121, BIO122, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, CHM101, CHM121, CHM122, PHY101, PHY121, PHY122, PHY105

³ Written & Oral Communication Electives: COM121, COM122, COM123, ENG221, ENG231,

⁴ Social & Behavioral Sciences Electives: PSC121, PSY121, PSY122, PSY220, PSY221, SOC121, SOC123, SOC221, SOC222

⁵ Electives: ACC235, HLS121, HLS122, HLS123, SWK125, SWK225



ASSOCIATE OF APPLIED SCIENCE PARALEGAL STUDIES

1516 Catalog
Effective Summer 2015

1320

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PLS121	Introduction to Paralegal Studies [^]	3		
PLS122	Civil Litigation	3	PLS121	
PLS123	Legal Ethics	3	PLS121	
PLS221	Torts and Personal Injury Law	3	PLS122	
PLS222	Family Law	3	PLS121	
PLS223	Property & Probate Law	3	PLS122	
PLS224	Criminal Law and Procedures for the Paralegal	3	PLS121	
PLS227	Paralegal Studies Practicum and Seminar	3	PLS221	
AOT235	Legal Research and Writing	3		
AOT239	Legal Transcription	3	AOT129 and AOT130	
AOT237	Legal Office Applications	3	(AOT224 or PLS121) and AOT239	
Total		33		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
AOT121	Keyboarding/Formatting	3		
AOT129	Keyboarding Skill Building	1	AOT121	
AOT130	Editing, Proofreading, and Language Skills	3		
IRT131	Legal Terminology	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
COM121	Effective Speaking	3		
PSC121	Political Science ¹ (recommended)	3		
SOC225	Cultural Diversity	3		
BIO126	Science, Energy, & the Environment (lab) ² (recommended)	4		
MTH108	Explorations in Modern Mathematics ^{^ 3} (recommended)	3	(MTH091 and MTH092)+ or Proficiency	
Total		30		
TOTAL CREDIT HOURS		63		

[^]Based on SSC placement score.

^{^^}To promote student success, this course should be taken in the first semester.

⁺Minimum grade of "B" required.

¹ Or select one of the following courses: CJS121, PSY121, SOC121, SOC123 (*Check for prerequisites*)

² Or select one of the following courses: BIO121, BIO127, BIO141, BIO142, CHM101, CHM121, PHY101, PHY105 (*Check for prerequisites*)

³ Or select MTH124 for students who plan to pursue a Bachelor's degree in the future. (*Check for prerequisites*)

1516 Catalog Effective Summer 2015	PARALEGAL STUDIES	1320

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make appointments to meet with their advisors before registering for classes each semester. The student should determine his or her course preferences for the semester prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
AOT121	Keyboarding/Formatting	3	
IRT131	Legal Terminology	3	
PLS121	Introduction to Paralegal Studies^	3	
ENG124	College Composition^	3	ENG011 or Proficiency
SOC225	Cultural Diversity	<u>3</u>	
		16	
<u>Second Semester</u>			
AOT129	Keyboarding/Skill Building	1	AOT121
AOT130	Editing, Proofreading, and Language Skills	3	
AOT235	Legal Research and Writing	3	
PLS122	Civil Litigation	3	PLS121
PLS123	Legal Ethics	3	PLS121
<i>Natural & Physical Sciences Elective ¹</i>		<u>4</u>	<i>Check for prerequisites</i>
		17	
<u>Third Semester</u>			
AOT239	Legal Transcription	3	AOT129 and AOT130
AOT237	Legal Office Applications	3	(AOT224 or PLS121)
			and AOT239
PLS221	Torts and Personal Injury Law	3	PLS122
PLS222	Family Law	3	PLS121
COM121	Effective Speaking	<u>3</u>	
		15	
<u>Fourth Semester</u>			
PLS224	Criminal Law and Procedures for the Paralegal	3	PLS121
PLS223	Property & Probate Law	3	PLS122
PLS227	Paralegal Studies Practicum and Seminar	3	PLS221
<i>Social & Behavioral Sciences Elective ²</i>		3	<i>Check for prerequisites</i>
<i>Mathematics Elective ³</i>		<u>3</u>	<i>Check for pre-requisites</i>
		15	
TOTAL CREDITS		63	

^Based on SSC placement score

^^To promote student success, this course should be taken in the first semester

¹ Natural & Physical Sciences Elective: BIO121, BIO126 (**recommended**), BIO127, BIO141, BIO142, CHM101, CHM121, PHY101, PHY105

² Social & Behavioral Sciences Elective: CJS121, PSC121 (**recommended**), PSY121, SOC121, SOC123

³ Mathematics Elective: MTH108 (**recommended**) or MTH124



ASSOCIATE OF ARTS

ASSOCIATE OF ARTS - GENERAL

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

7100

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
COM123	Small Group Communication	3	ENG124	
COM125	Introduction to Communication Theory^	3	IDS102 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES: 12 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
BUS122	Basic Economics^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
PSC121	Political Science	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3	PSY121	
PSY123	Human Growth and Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY220	Social Psychology	3	PSY121	
PSY221	Abnormal Psychology	3	PSY121	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
ARTS & HUMANITIES: 9 credit hours minimum				
ENG233	British Literature: Medieval to 1785	3	ENG124	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

1516 Catalog Effective Summer 2015	ASSOCIATE OF ARTS - GENERAL	7100

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17th Century	3		
HIS222	HIS222 World Civilization from 17th Century	3		
PHL122	Ethics	3		
SCIENCES & MATHEMATICS				
<u>Natural and Physical Sciences:</u> 7 credit hours minimum (1 lab course required)				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, and the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org., and Bio Chemistry I (lab)^▲	4	CHM101 or Proficiency	
CHM122	Gen., Org., and Bio Chemistry II (lab)	4	CHM121	
CHM141	General Chemistry I (lab)^▲	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	

^ Based on SSC placement scores.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

1516 Catalog Effective Summer 2015	ASSOCIATE OF ARTS - GENERAL	7100

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
<u>Mathematics: 3 credit hours minimum</u>				
MTH124	Statistics [^]	3	MTH093++ or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094)++ or Proficiency	
MTH130	Trigonometry	3	MTH125	
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
MTH221	Concepts of Calculus [^]	3	MTH135 or (MTH125 and MTH130) or Proficiency	
MTH223	Analytic Geometry and Calculus I [^]	4	MTH 135 or (MTH125 and MTH130) or Proficiency	
ADDITIONAL ELECTIVES TO COMPLETE DEGREE		14-20	Check for prerequisites	
TOTAL CREDIT HOURS (60 hour minimum)		60-63		

ASSOCIATE OF ARTS GENERAL ELECTIVES

The Associate of Arts Degree requires a **minimum of 60 credit hours**. Students should select additional courses from the previous page, choose elective courses from the list below, or receive approval from the department chair for other related electives. Please see your academic advisor for assistance with course selection.

ADDITIONAL LIBERAL ARTS COURSES	
Arts and Humanities	English and Modern Languages
ENG235 Introduction to Shakespeare (3)	ENG125 Technical Editing and Layout (3)
ENG239 Film Appreciation (3)	ENG126 Technical Grammar and Style (3)
ENG 240 Women's Literature (3)	ENG227 Writing for Media (3)
ENG241 Major Modern Writers (3)	ENG228 Writing for the Web (3)
	ENG229 Grant Writing (3)
Communication	ENG232 Scriptwriting (3)
COM223 Interviewing (3)	ENG238 Introduction to Creative Writing (3)
	SPN100 Elementary Spanish I (4)
Social and Behavioral Sciences	SPN200 Elementary Spanish II (4)
GER121 Introduction to Gerontology (3)	CHN100 Elementary Chinese I (4)
GER122 Psychosocial Aspects of Aging (3)	CHN200 Elementary Chinese II (4)
PSY222 Psychological Aspects of Therapy (3)	
SOC124 US Social Systems (3)	Criminal Justice
SOC222 Juvenile Delinquency (3)	CJS121 Introduction to Criminal Justice (3)
	CJS129 Corrections (3)
ADDITIONAL SCIENCE COURSES	CJS221 Criminology (3)
Biology	
BIO101 Introduction to Anatomy and Physiology (3) [^] ▲	
BIO123 Principles of Human Structure & Function (5)#	
BIO222 Pharmacology (3)	

[^] Based on SSC placement scores.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

#BIO121 and BIO122 may be substituted for BIO123.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
Arts & Humanities Elective ¹		3	Check for prerequisites
Social & Behavioral Science Elective^5		3	Check for prerequisites
		13	
<u>Second Semester</u>			
Arts & Humanities Elective ¹		3	Check for prerequisites
Mathematics Elective ²		3-5	Check for prerequisites
Natural & Physical Science Elective^3		3-5	Check for prerequisites
Written & Oral Communication Elective ⁴		3	Check for prerequisites
		12-16	
<u>Third Semester</u>			
SOC225	Cultural Diversity	3	
Natural & Physical Science Elective^3		4-5	Check for prerequisites
Arts & Humanities Elective ¹		3	Check for prerequisites
Social & Behavioral Science Elective^5		3	Check for prerequisites
Elective ⁶		3-5	Check for prerequisites
		16-19	
<u>Fourth Semester</u>			
Elective ⁶	(Take an additional 14-20 credit hours to reach 60 credit hours)	14-20	Check for prerequisites
TOTAL CREDITS		60-63	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122

² Mathematics Elective: MTH124, MTH125, MTH130, MTH135, MTH221, MTH223

³ Natural & Physical Science Electives: BIO121, BIO122, BIO124, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, BIO221, CHM101, CHM121, CHM122, CHM141, CHM142, PHY101, PHY121, PHY122, PHY105

⁴ Written & Oral Communication Elective: COM121, COM122, COM123, COM125, ENG221, ENG230, ENG231

⁵ Social & Behavioral Science Electives: BUS122, BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY124, PSY220, PSY221, SOC121, SOC122, SOC123, SOC221

⁶ Electives: Select from BIO101, BIO123, BIO222, CHN100, CHN200, CJS121, CJS129, CJS221, COM223, ENG235, ENG239, ENG240, ENG241, ENG125, ENG126, ENG227, ENG228, ENG229, ENG232, ENG238, GER121, GER122, PSY222, SOC124, SOC222, SPN100, SPN200, or any additional Written & Oral Communication, Social & Behavioral Sciences, Arts & Humanities, or Science courses.



ASSOCIATE OF ARTS

ENGLISH – LITERATURE MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

7200

Education, Liberal Arts, and Mathematics Division

English and Modern Languages Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ENGLISH COMPOSITION: 6 credit hours required				
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
LITERATURE ELECTIVES: 6 credit hours minimum				
ENG235	Introduction to Shakespeare	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
ENG239	Film Appreciation	3	ENG124	
ENG240	Women's Literature	3	ENG124	
ENG241	Major Modern Writers	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours minimum				
PSC121	Political Science	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3	PSY121	
PSY123	Human Growth and Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY221	Abnormal Psychology	3	PSY121	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC225	Cultural Diversity (required)	3		
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 12 credit hours minimum				
PHL122	Ethics	3		
ENG233	British Literature: Medieval to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

1516 Catalog Effective Summer 2015	ENGLISH – LITERATURE MAJOR	7200

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SCIENCES & MATHEMATICS				
<i>Natural and Physical Sciences: 7 credit hours required. (Choose one 3 hour course and one 4 hour course.)</i>				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, & the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org. and Bio Chemistry I (lab)^▲	4	CHM101 or Proficiency	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
<i>Mathematics: 3 credit hours minimum</i>				
MTH124	Statistics^	3	MTH093++ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
ADDITIONAL ELECTIVES IN COMPOSITION OR LITERATURE TO COMPLETE DEGREE		14-15	<i>Check for prerequisites</i>	
TOTAL CREDIT HOURS (60 hours minimum)		61-63		

ASSOCIATE OF ARTS IN ENGLISH LITERATURE MAJOR ELECTIVES

The Associate of Arts in English Literature Degree requires a **minimum of 60 credit hours**. Students should choose elective courses from the list below, select additional courses from the previous page, or receive approval from the department chair for other related electives. Students are responsible for knowing and following all pre-requisites for the courses below. Please see your academic advisor for assistance with course selection.

ENG125	Technical Editing and Layout	3	ENG124	
ENG126	Technical Grammar and Style	3	ENG124	
ENG227	Writing for Media	3	ENG124	
ENG228	Writing for the Web	3	ENG124	
ENG229	Grant Writing	3	ENG124	
COM121	Effective Speaking	3		
SPN100	Elementary Spanish I	4		
SPN200	Elementary Spanish II	4	SPN100	
CHN100	Elementary Chinese I	4		
CHN200	Elementary Chinese II	4	CHN100	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre-or Co-requisites</u>
SSC101 Student Success Seminar ^{^^}	1	Take first semester
ENG124 College Composition [^]	3	ENG011 or Proficiency
ITD122 Computer Applications for Professionals [^]	3	ITD100 or Proficiency
Mathematics Elective ¹	3	Check for prerequisites
Arts & Humanities Elective ²	3	Check for prerequisites
Social & Behavioral Science Elective ³	3	Check for prerequisites
	16	
<u>Second Semester</u>		
ENG231 College Composition II	3	ENG124
SOC225 Cultural Diversity	3	
Natural & Physical Sciences Elective ⁴	4	Check for prerequisites
Arts & Humanities Elective ²	3	Check for prerequisites
Literature Elective ⁵	3	Check for prerequisites
	16	
<u>Third Semester</u>		
Arts & Humanities Elective ²	3	Check for prerequisites
Natural & Physical Sciences Elective ⁴	3	Check for prerequisites
Social & Behavioral Science Elective ³	3	Check for prerequisites
Literature Elective ⁵	3	Check for prerequisites
Additional Literature Elective ⁶	3	Check for prerequisites
	15	
<u>Fourth Semester</u>		
Arts & Humanities Elective ²	3	Check for prerequisites
Additional Literature Elective ⁶	4	Check for prerequisites
Additional Literature Elective ⁶	3	Check for prerequisites
Additional Literature Elective ⁶	3	Check for prerequisites
Additional Literature Elective ⁶	3	Check for prerequisites
	16	
TOTAL CREDITS	63	

[^] Based on SSC placement scores.

^{^^} To promote student success, this course should be taken in the first semester.

⁺⁺ Minimum grade of "C" required.

[▲] Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Mathematics Elective: MTH124, MTH125

² Arts & Humanities Elective: ENG233, ENG234, HIS121, HIS122, HIS221, HIS222, PHL122,

³ Social & Behavioral Science Elective: BUS122, BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221

⁴ Natural & Physical Sciences Elective: BIO121, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, CHM101, CHM121, PHY101, PHY121, PHY105

⁵ Literature Elective: ENG235, ENG236, ENG237, ENG239, ENG240, ENG241

⁶ Additional Literature Elective: CHN100, CHN200, COM121, ENG125, ENG126, ENG227, ENG228, ENG229, ENG235, ENG236, ENG237, ENG239, ENG240, ENG241, SPN100, SPN200



ASSOCIATE OF ARTS

ENGLISH – COMPOSITION MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

7201

Education, Liberal Arts, and Mathematics Division

English and Modern Languages Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ENGLISH COMPOSITION: 6 credit hours required				
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
COMPOSITION ELECTIVES: 6 credit hours minimum				
ENG221	Technical Report Writing	3	ENG124	
ENG227	Writing for the Media	3	ENG124	
ENG228	Writing for the Web	3	ENG124	
ENG229	Grant Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG232	Scriptwriting	3	ENG124 and ENG227	
ENG238	Introduction to Creative Writing	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours minimum				
PSC121	Political Science	3		
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
SOC225	Cultural Diversity (required)	3		
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3	PSY121	
PSY123	Human Growth & Development	3	PSY121	

^ Based on SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PSY124	Industrial/Organizational Psychology	3		
PSY221	Abnormal Psychology	3	PSY121	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 12 credit hours minimum				
PHL122	Ethics	3		
ENG233	British Literature: Medieval to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		
SCIENCES & MATHEMATICS				
<u>Natural and Physical Sciences:</u> 7 credit hours required. (Choose one 3 hour course and one 4 hour course.)				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, and the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org. and Bio Chemistry I (lab)▲	4	CHM 101 or Proficiency	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	

^ Based on SSC placement scores.

++Minimum grade of “C” required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

1516 Catalog Effective Summer 2015	ENGLISH – COMPOSITION MAJOR	7201

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
<u>Mathematics:</u> 3 credit hours minimum				
MTH124	Statistics^	3	MTH093++ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
ADDITIONAL ELECTIVES IN COMPOSITION TO COMPLETE DEGREE		14-15	<i>Check for prerequisites</i>	
TOTAL CREDIT HOURS (60 credits minimum)		61-63		

ASSOCIATE OF ARTS IN ENGLISH COMPOSITION MAJOR ELECTIVES

The Associate of Arts in English Degree requires a **minimum of 60 credit hours**. Students should choose elective courses from the list below, select additional courses from the previous page, or receive approval from the department chair for other related electives. Students are responsible for knowing and following all pre-requisites for the courses below. Please see your academic advisor for assistance with course selection.

ADDITIONAL ELECTIVES				
ENG125	Technical Editing and Layout	3	ENG124	
ENG126	Technical Grammar and Style	3	ENG124	
COM121	Effective Speaking	3		
SPN100	Elementary Spanish I	4		
SPN200	Elementary Spanish II	4	SPN100	
CHN100	Elementary Chinese I	4		
CHN200	Elementary Chinese II	4	CHN100	

^Based on SSC placement scores.

++Minimum grade of "C" required.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre-requisites</u>
SSC101 Student Success Seminar ^{^^}	1	Take first semester
ENG124 College Composition [^]	3	ENG011 or Proficiency
ITD122 Computer Applications for Professionals [^]	3	ITD100 or Proficiency
Mathematics Elective ¹	3	Check for prerequisites
Arts & Humanities Elective ²	3	Check for prerequisites
Social & Behavioral Science Elective ³	3	Check for prerequisites
	16	
<u>Second Semester</u>		
ENG231 College Composition II	3	ENG124
SOC225 Cultural Diversity	3	
Natural & Physical Sciences Elective ^{^4}	4	Check for prerequisites
Arts & Humanities Elective ²	3	Check for prerequisites
Composition Elective ⁵	3	Check for prerequisites
	16	
<u>Third Semester</u>		
Arts & Humanities Elective ²	3	Check for prerequisites
Natural & Physical Sciences Elective ^{^4}	3	Check for prerequisites
Social & Behavioral Science Elective ³	3	Check for prerequisites
Composition Elective ⁵	3	Check for prerequisites
Additional Composition Elective ⁶	3	Check for prerequisites
	15	
<u>Fourth Semester</u>		
Arts & Humanities Elective ²	3	Check for prerequisites
Additional Composition Elective ⁶	3	Check for prerequisites
Additional Composition Elective ⁶	3	Check for prerequisites
Additional Composition Elective ⁶	4	Check for prerequisites
Additional Composition Elective ⁶	3	Check for prerequisites
	16	
TOTAL CREDITS	63	

[^]Based on SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

[^]Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Mathematics Elective: MTH124, MTH125

² Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122

³ Social & Behavioral Science Electives: BUS122, BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221

⁴ Natural & Physical Sciences Electives: BIO121, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, CHM101, CHM121, PHY101, PHY121, PHY105

⁵ Composition Elective: ENG221, ENG227, ENG228, ENG229, ENG230, ENG232, ENG238,

⁶ Additional Composition Electives: CHN100, CHN200, COM121, ENG125, ENG126, , ENG221, ENG227, ENG228, ENG229, ENG230, ENG232, ENG238, SPN100, SPN200



ASSOCIATE OF ARTS PSYCHOLOGY

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

1516 Catalog

Effective Summer 2015

7210

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
WRITTEN & ORAL COMMUNICATION: 9 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
COM123	Intergroup Communication	3	ENG124	
BEHAVIORAL SCIENCES: 21 credit hours required				
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY123	Human Growth and Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY220	Social Psychology	3	PSY 121	
PSY221	Abnormal Psychology	3	PSY121	
PSY222	Psychological Aspects of Therapy^	3	IDS102 or Proficiency	
PSY229	Psychological Methods	3	PSY123 and PSY220 and PSY221 and PSY222	
SOCIAL SCIENCES: 6 credit hours minimum				
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
SOC225	Cultural Diversity (required)	3		
CJS121	Introduction to Criminal Justice	3		
ELECTIVES: 6 credit hours minimum				
PSY122	Psychology of Adjustment	3	PSY121	
COM 223	Interviewing	3	COM122	
SWK125	Substance Abuse^	3	IDS102 or Proficiency	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
GER121	Gerontology	3		

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CJS221	Criminology	3	CJS121	
ARTS & HUMANITIES: 6 credit hours minimum				
PHL122	Ethics (required)	3		
ENG233	British Literature: Medieval to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
SCIENCES & MATHEMATICS				
<u>Natural and Physical Sciences:</u> 6 semester credit hours minimum (1 lab course required)				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, and the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org., and Bio Chemistry I (lab)^▲	4	CHM101 or Proficiency	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
<u>Mathematics:</u> 3 semester credit hours required				
MTH124	Statistics^	3	MTH093++ or Proficiency	
TOTAL CREDITS HOURS		61-63		

^Based on SSC placement scores.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

FULL-TIME STUDENT ADVISING NOTES

1516 Catalog Effective Summer 2015	PSYCHOLOGY	7210

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre-or Co-requisites</u>
SSC101 Student Success Seminar^^	1	Take first semester
ITD122 Computer Applications for Professionals^	3	ITD100 or Proficiency
ENG124 College Composition^	3	ENG011 or Proficiency
PHL122 Ethics	3	
PSY121 General Psychology^	3	IDS102 or Proficiency
Social Science Elective ⁴	<u>3</u>	Check for prerequisites
	16	
<u>Second Semester</u>		
Elective ⁵	3	Check for prerequisites
SOC225 Cultural Diversity	3	
Natural & Physical Science Elective ^{▲2}	3-4	Check for prerequisites
PSY123 Human Growth and Development	3	PSY121
PSY124 Industrial/Organizational Psychology	<u>3</u>	
	15-16	
<u>Third Semester</u>		
Written & Oral Communication Elective ³	3	Check for prerequisites
MTH124 Statistics	3	MTH093++ or Proficiency
PSY220 Social Psychology	3	PSY121
PSY221 Abnormal Psychology	3	PSY121
PSY222 Psychological Aspects of Therapy^	<u>3</u>	IDS102 or Proficiency
	15	
<u>Fourth Semester</u>		
Arts & Humanities Elective ¹	3	Check for prerequisites
Natural & Physical Science Elective ^{▲2}	3-4	Check for prerequisites
Written & Oral Communication Elective ³	3	Check for prerequisites
Elective ⁵	3	Check for prerequisites
PSY229 Psychological Methods	<u>3</u>	PSY123 and PSY220 and PSY221 and PSY222
	15-16	
TOTAL CREDITS	61-63	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122

² Natural & Physical Science Elective: BIO121, BIO122, BIO124, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, BIO221, CHM101, CHM121, PHY101, PHY121, PHY122, PHY105

³ Written & Oral Communication Elective: COM121, COM122, COM123, ENG221, ENG230, ENG231

⁴ Social Science Elective: CJS121, SOC121, SOC123, SOC221

⁵ Elective: CJS221, COM223, PSY122 SWK125, GER121



ASSOCIATE OF ARTS APPLIED SOCIOLOGY

1516 Catalog
Effective Summer 2015

7211

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
WRITTEN & ORAL COMMUNICATION: 9 credit hours minimum				
ENG124	College Composition (required)^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
COM123	Intergroup Communication	3	ENG124	
COM125	Introduction to Communication Theory^	3	IDS102 or Proficiency	
SOCIOLOGICAL SCIENCES: 21 credit hours required				
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
SOC225	Cultural Diversity	3		
SOC228	Social Structure and the Individual	3	SOC121	
SOC229	The African American Experience	3	SOC121	
SOC230	Applied Sociological Methods	3	SOC123 and SOC221 and SOC225 and SOC228 and SOC229 and MTH124	
BEHAVIORAL SCIENCES: 6 credit hours minimum				
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY123	Human Growth and Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY221	Abnormal Psychology	3	PSY121	
SOCIOLOGY ELECTIVES: 6 credit hours minimum				
CJS121	Introduction to Criminal Justice	3		
CJS221	Criminology	3	CJS121	
COM225	Sex, Gender and Culture	3		
GER121	Introduction to Gerontology	3		
GER122	Psychosocial Aspects of Aging	3		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SOC122	Society and Technology	3		
SOC222	Juvenile Delinquency	3	SOC121	
ARTS AND HUMANITIES: 6 credit hours minimum				
PHL122	Ethics (required)	3		
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
ENG233	British Literature Medieval to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
SCIENCES AND MATHEMATICS				
<u>Natural and Physical Sciences:</u> 6 semester credit hours minimum (1 lab course required)				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO126	Science, Energy and the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry^▲	4	(MTH093 and MTH094)++ or Proficiency	
CHM121	Gen., Org., & Bio Chemistry I (lab)^▲	4	CHM101 or Proficiency	
CHM122	Gen., Org., & Bio Chemistry II (lab)	4	CHM121	
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
<u>Mathematics:</u> 3 semester credit hours required				
MTH124	Statistics^	3	(MTH093 and MTH094)++ or Proficiency	
TOTAL CREDITS HOURS		61-63		

^Based on SSC placement scores.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>	<u>Credit Hours</u>	<u>Pre-or Co-requisites</u>
SSC101 Student Success Seminar^^	1	Take first semester
ITD122 Computer Applications For Professionals^	3	ITD 100 or Proficiency
ENG124 College Composition^	3	ENG 011 or Proficiency
Written and Oral Communication Elective ³	3	Check for prerequisites
SOC225 Cultural Diversity	3	
SOC121 Sociology^	3	IDS102 or Proficiency
	16	
<u>Second Semester</u>		
Sociology Elective ⁴	3	Check for prerequisites
SOC221 Social Problems	3	SOC121
SOC123 Dynamics of the Family	3	
Behavioral Sciences Elective ⁵	3	Check for prerequisites
Natural and Physical Sciences Elective▲ ²	3-4	Check for prerequisites
	15-16	
<u>Third Semester</u>		
Natural and Physical Sciences Elective▲ ²	3-4	Check for prerequisites
Written and Oral Communication Elective ³	3	Check for prerequisites
SOC229 The African American Experience	3	SOC121
SOC228 Social Structure and the Individual	3	SOC121
MTH124 Statistics^	3	(MTH093 and MTH094)++ or Proficiency
	15-16	
<u>Fourth Semester</u>		
Arts and Humanities Elective ¹	3	Check for prerequisites
Sociology Elective ⁴	3	Check for prerequisites
Behavioral Sciences Elective ⁵	3	Check for prerequisites
PHL122 Ethics (required)	3	
SOC230 Applied Sociological Methods	3	SOC123 and SOC221 and SOC225 and SOC228 and SOC229 and MTH124
	15	
TOTAL CREDITS	61-63	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

++Minimum grade of "C" required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹Arts and Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122

²Natural and Physical Sciences Electives: BIO121, BIO122, BIO124, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO221, CHM101, CHM121, CHM 122, PHY101, PHY121, PHY105

³Written and Oral Communication Electives: COM121, COM122, COM123, COM125, ENG221, ENG230, ENG231,

⁴Sociology Electives: CJS121, CJS221, COM225, GER121, GER122, SOC122, SOC222

⁵Behavioral Sciences Electives: PSY121, PSY123, PSY124, PSY221



ASSOCIATE OF ARTS COMMUNICATION

1516 Catalog

Effective Summer 2015

7215

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Education, Liberal Arts, and Mathematics Division

*Communication, Humanities, and Reading
Department*

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
CORE CLASSES: 15 credit hours required				
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
COM123	Small Group Communication	3	ENG124	
COM125	Introduction to Communication Theory^	3	IDS102 or Proficiency	
COM126	Introduction to Mass Communication	3		
COMMUNICATION ELECTIVES: 6 credit hours minimum				
COM127	Health Communication	3	IDS102 or Proficiency	
COM223	Interviewing I	3	COM122	
COM225	Sex, Gender, and Culture	3		
COM226	Organizational Communication	3		
COM227	Intercultural Communication	3	COM122	
COM228	Nonverbal Communication	3		
COM229	Persuasion^	3	IDS102 or Proficiency	
COM230	Argumentation^	3	COM121 and (IDS102 or Proficiency)	
COMPUTER APPLICATIONS: 3 credit hours required				
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ENGLISH COMPOSITION: 6-7 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
ENG126	Technical Grammar and Style	3	ENG124	
SPN100	Elementary Spanish I	4		
SPN200	Elementary Spanish II	4	SPN100	
CHN100	Elementary Chinese I	4		
CHN200	Elementary Chinese II	4	CHN100	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

1516 Catalog Effective Summer 2015	COMMUNICATION	7215

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours minimum				
PSC121	Political Science	3		
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3	PSY121	
PSY123	Human Growth and Development	3	PSY121	
PSY124	Industrial / Organizational Psychology	3		
PSY220	Social Psychology	3	PSY121	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
SOC225	Cultural Diversity (required)	3		
BUS122	Basic Economics [^]	3	IDS102 or Proficiency	
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 9 credit hours minimum				
PHL122	Ethics	3		
ENG233	British Literature: Medieval to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		
SCIENCES & MATHEMATICS				
<u>Natural and Physical Sciences: 7-8 credit hours minimum (1 lab course required)</u>				
BIO121	Anatomy and Physiology I (lab) [^] ▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, and the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		

[^]Based on SSC placement scores.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

1516 Catalog Effective Summer 2015	COMMUNICATION	7215

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry [^] ▲	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
CHM121	Gen., Org., and Bio Chemistry I (lab) [^] ▲	4	CHM101 or Proficiency	
CHM122	Gen., Org., and Bio Chemistry II (lab)	4	CHM121	
PHY101	Principles of Physics (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
PHY105	Astronomy (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
<u>Mathematics:</u> 4-5 credit hours minimum				
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH223	Analytic Geometry and Calculus I [^]	4	MTH135 or (MTH125 and MTH130) or Proficiency	
	TOTAL CREDIT HOURS	60-63		

[^]Based on SSC placement scores.

⁺⁺Minimum grade of “C” required.

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre-or Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
ENG124	College Composition I^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
COM121	Effective Speaking	3	
COM122	Interpersonal Communication	3	
		13	
<u>Second Semester</u>			
English Composition Elective ⁵		3-4	Check for prerequisites
COM125	Introduction to Communication Theory^	3	IDS102 or Proficiency
Mathematics Elective ⁶		4-5	Check for prerequisites
Communication Elective ³		3	Check for prerequisites
Arts and Humanities Elective ⁴		3	Check for prerequisites
		16-18	
<u>Third Semester</u>			
COM123	Small Group Communication	3	ENG124
Natural and Physical Science Elective ² ▲		3-4	Check for prerequisites
SOC225	Cultural Diversity	3	
Arts and Humanities Elective ⁴		3	Check for prerequisites
Social & Behavioral Science Elective ¹		3	Check for prerequisites
		15-16	
<u>Fourth Semester</u>			
Natural and Physical Science Elective ² ▲		4	Check for prerequisites
COM126	Introduction to Mass Communication	3	
Communication Elective ³		3	Check for prerequisites
Social & Behavioral Science Elective ¹		3	Check for prerequisites
Arts and Humanities Elective ⁴		3	Check for prerequisites
		16	
TOTAL CREDITS		60-63	

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Social & Behavioral Science Electives: BUS122, BUS221, BUS222, PSC121, PSY121, PSY122, PSY123, PSY124, PSY220, SOC121, SOC122, SOC123, SOC221, SOC225,

² Natural and Physical Science Electives: BIO121, BIO122, BIO124, BIO125, BIO126, BIO127, BIO128, BIO129, BIO130, BIO141, BIO142, BIO221, CHM101, CHM121, CHM122, CHM141, CHM142, PHY101, PHY121, PHY122, PHY105

³ Communication Electives: COM127, COM223, COM225, COM226, COM227, COM228, COM229, COM230

⁴ Arts & Humanities Electives: PHL122, ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222

⁵ English Composition Elective: ENG126, ENG221, ENG230, ENG231, SPN100, SPN200, CHN100, CHN200

⁶ Mathematics Elective: MTH125, MTH135, MTH223



CAREER ENHANCEMENT CERTIFICATE

ENGLISH – TECHNICAL COMMUNICATIONS

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1516 Catalog

Effective Summer 2015

1201

Education, Liberal Arts, and Mathematics Division

English and Modern Languages Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENG124	College Composition^	3	ENG011 or Proficiency	
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG125	Technical Editing and Layout	3	ENG124	
ENG227	Writing for Media	3	ENG124	
COM223	Interviewing I	3	COM122	
TOTAL CREDIT HOURS		18		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
ENG124	College Composition^	3	ENG011 or Proficiency
ITD122	Computer Applications for Professionals^	3	ITD100 or Proficiency
COM223	Interviewing I	<u>3</u>	COM122
		9	

Second Semester

ENG221	Technical Report Writing	3	ENG124
ENG125	Technical Editing and Layout	3	ENG124
ENG227	Writing for Media	<u>3</u>	ENG124
		9	
TOTAL CREDITS		18	

^ Based upon SSC placement score.



CAREER ENHANCEMENT CERTIFICATE

HEALTH COMMUNICATION

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

1202

Education, Liberal Arts, and Mathematics Division

Communication, Humanities, and Reading Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
COM122	Interpersonal Communication	3		
BIO125	Medical Terminology	3		
ENG124	College Composition [^]	3	ENG011 or Proficiency	
SOC225	Cultural Diversity	3		
ENG221	Technical Report Writing	3	ENG124	
COM228	Nonverbal Communication [^]	3	IDS102 or Proficiency	
COM229	Persuasion [^]	3	IDS102 or Proficiency	
COM127	Health Communication [^]	3	IDS102 or Proficiency	
TOTAL CREDIT HOURS		24		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

COM122 Interpersonal Communication
BIO125 Medical Terminology

Credit Hours

3
3
6

Pre- and Co-requisites

Second Semester

ENG124 College Composition[^]
SOC225 Cultural Diversity

3
3
6

ENG011 **or** Proficiency

Third Semester

ENG221 Technical Report Writing
COM228 Nonverbal Communication[^]

3
3
6

ENG124
IDS102 **or** Proficiency

Fourth Semester

COM229 Persuasion[^]
COM127 Health Communication[^]

3
3
6

IDS102 **or** Proficiency
IDS102 **or** Proficiency

TOTAL CREDITS

24

[^]Based upon SSC placement scores.



CAREER ENHANCEMENT CERTIFICATE

GRANT WRITING

1516 Catalog

Effective Summer 2015

1203

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Education, Liberal Arts, and Mathematics Division

English and Modern Languages Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ENG124	College Composition [^]	3	ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
ENG221	Technical Report Writing	3	ENG124	
ENG229	Grant Writing	3	ENG124	
ENG126	Technical Grammar and Style	3	ENG124	
	TOTAL CREDIT HOURS	15		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

ENG124	College Composition [^]	<u>3</u>	ENG011 or Proficiency
		3	

Second Semester

ENG221	Technical Report Writing	3	ENG124
ENG231	College Composition II	3	ENG124
ENG126	Technical Grammar and Style	<u>3</u>	ENG124
		9	

Third Semester

ENG229	Grant Writing	<u>3</u>	ENG124
		3	

TOTAL CREDITS	15

[^]Based upon SSC placement score.



CAREER ENHANCEMENT CERTIFICATE POLICE SCIENCE

1516 Catalog
Effective Summer 2015

1304

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Education, Liberal Arts, and Mathematics Division

Social Sciences Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CJS140	Law Enforcement Academy I ^{^++}	8	IDS102 or Proficiency	
CJS240	Law Enforcement Academy II ^{^++}	8	CJS140	
TOTAL CREDIT HOURS		16		

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

First Semester

CJS140 Law Enforcement Academy I^{^++}

Credit Hours

8
8

Pre- and Co-requisites

IDS102 **or** Proficiency

Second Semester

CJS240 Law Enforcement Academy II^{^++}

8
8

CJS140

TOTAL CREDITS

16

[^]Based upon SSC placement score

⁺⁺Minimum grade of "C" required.

Note: Stark State College's Police Science Career Enhancement Certificate is for individuals interested in pursuing a career in law enforcement. This is an intensive, two-semester program.

Background checks are completed and submitted to BCI and FBI prior to acceptance into the Police Science certificate program. Individuals who have been convicted of a felony, domestic violence, or drug convictions will not be eligible for the Police Science program. Application packets are available through the Education, Liberal Arts, and Mathematics Division.

All instructors are certified by the Ohio Peace Officer Training Commission. Individuals who successfully complete the Police Science Career Enhancement Certificate program and pass the practical exercises are eligible to take the state (Ohio Basic Peace Officer Certification) examination.

The background of the page is a dense, repeating pattern of various icons related to science, technology, and mathematics. These icons include gears, lightbulbs, DNA helices, chemical structures, microscopes, calculators, and various geometric shapes. A prominent red banner is located at the top of the page, partially overlapping the icon pattern.

MATHEMATICS

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF SCIENCE MATHEMATICS

1516 Catalog

Effective Summer 2015

7500

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Education, Liberal Arts, and Mathematics Division

Mathematics Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar ^{^^}	1	Take first semester	
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition [^] (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM122	Interpersonal Communication	3		
COM123	Small Group Communication	3	ENG124	
COM125	Introduction to Communication Theory [^]	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours minimum				
PSC121	Political Science	3		
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
SOC225	Cultural Diversity (required)	3		
BUS122	Basic Economics [^]	3	IDS102 or Proficiency	
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 9 credit hours minimum				
ENG233	British Literature I: Med to 1785	3	ENG124	
ENG234	British Literature II: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
PHL122	Ethics	3		
NATURAL & PHYSICAL SCIENCES: 7 credit hours minimum (1 lab course required)				
BIO121	Anatomy and Physiology I (lab) [^] [^]	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO126	Science, Energy, & the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO129	Meteorology (lab)	3		

[^]Based upon SSC placement scores.

^{^^}To promote student success, this course should be taken in the first semester.

[^]Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

1516 Catalog Effective Summer 2015	MATHEMATICS	7500

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry [^] [▲]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
CHM121	Gen., Org., & Bio Chemistry I (lab) [^] [▲]	4	CHM101 or Proficiency	
CHM122	Gen., Org., & Bio Chemistry II (lab)	4	CHM121	
CHM141	General Chemistry I (lab) [^] [▲]	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
PHY101	Principles of Physics (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
PHY105	Astronomy (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY221	General Physics I with Calculus (lab)	5	MTH223 and Co-MTH224	
PHY222	General Physics II with Calculus (lab)	5	PHY221 and MTH224 and Co-MTH225	
CORE MATHEMATICS & DATA ANALYSIS COURSES: 23 credit hours required				
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH223	Analytic Geometry and Calculus I [^] *	4	MTH135 or (MTH125 and MTH130) or Proficiency	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III	4	MTH224	
MTH226	Linear Algebra	3	MTH224	
MTH227	Ordinary Differential Equations	3	MTH224	
ADDITIONAL ELECTIVES FROM THIS SHEET TO COMPLETE DEGREE ⁵		5-6	<i>Check for prerequisites</i>	
TOTAL CREDIT HOURS		60-64		

[^]Based upon SSC placement scores.

⁺⁺Minimum grade of “C” required.

[▲]Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students who do not test into Analytic Geometry and Calculus I will have to take either MTH135 or (MTH125 and MTH130) to satisfy the Analytic Geometry and Calculus I prerequisite. This will add an additional 5-7 credit hours to the degree total.

1516 Catalog Effective Summer 2015	MATHEMATICS	7500

⁵Additional Electives: Any courses listed on this sheet not already being used to fulfill another requirement.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH135	Precalculus^	5	(MTH093 and MTH094)++ or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
<i>Social & Behavioral Sciences Elective</i> ²		3	
<i>Arts & Humanities Elective</i> ⁴		<u>3</u>	
		15	
<u>Second Semester</u>			
MTH223	Analytic Geometry and Calculus I^*	4	MTH135 or (MTH125 and MTH130) or Proficiency
SOC225	Cultural Diversity	3	
<i>Arts & Humanities Elective</i> ⁴		3	
<i>Written & Oral Communication Elective</i> ³		<u>3</u>	
		13	
<u>Third Semester (Summer)</u>			
MTH224	Analytic Geometry and Calculus II	<u>4</u> 4	MTH223
<u>Fourth Semester</u>			
MTH225	Analytic Geometry and Calculus III	4	MTH224
MTH226	Linear Algebra	3	MTH224
<i>Natural & Physical Sciences Elective</i> ^ ¹		4-5	
<i>Arts & Humanities Elective</i> ⁴		<u>3</u>	
		14-15	
<u>Fifth Semester</u>			
MTH227	Ordinary Differential Equations	3	MTH224
<i>Additional Elective</i> ⁵		5-6	
<i>Natural & Physical Sciences Elective</i> ^ ¹		3-5	
<i>Social & Behavioral Sciences Elective</i> ²		<u>3</u>	
		14-17	
TOTAL CREDITS		60-64	

^ Based upon SSC placement scores.

^^ To promote student success, this course should be taken in the first semester.

^ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students who do not test into Analytic Geometry and Calculus I will have to take either MTH135 or (MTH125 and MTH130) to satisfy the Analytic Geometry and Calculus I prerequisite. This will add an additional 5-7 credit hours to the degree total.

¹ Natural & Physical Science Electives: BIO121, BIO122, BIO124, BIO126, BIO127, BIO129, BIO141, BIO142, BIO221, CHM101, CHM121, CHM122, CHM141, CHM142, PHY101, PHY121, PHY122, PHY105, PHY221, PHY222

² Social & Behavioral Sciences Electives: Select from BUS122, BUS221, BUS222, PSC121, PSY121, SOC121,

³ Written & Oral Communication Elective: COM122, COM123, COM125, COM121, ENG221, ENG230, ENG231

⁴ Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

⁵ Additional Electives: Any courses listed on this sheet not already being used to fulfill another requirement.



ASSOCIATE OF SCIENCE

MATHEMATICS – PRE-ACTUARIAL MATHEMATICS MAJOR

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

1516 Catalog

Effective Summer 2015

7501

Education, Liberal Arts, and Mathematics Division

Mathematics Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM122	Interpersonal Communication	3		
COM123	Small Group Communication	3	ENG124	
COM125	Introduction to Communication Theory^	3	IDS102 or Proficiency	
COM121	Effective Speaking	3		
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours required				
SOC225	Cultural Diversity	3		
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 9 credit hours minimum				
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
PHL122	Ethics	3		
NATURAL & PHYSICAL SCIENCES: 8 credit hours minimum (1 lab course required)				
BIO121	Anatomy and Physiology I (lab)^▲	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO126	Science, Energy, and the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO129	Meteorology (lab)	3		
BIO141	General Biology I (lab)	4		

^Based on SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

▲Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

1516 Catalog Effective Summer 2015	MATHEMATICS – PRE-ACTUARIAL MATHEMATICS MAJOR	7501

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BIO142	General Biology II (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry [^] ▲	4	MTH123 or Proficiency	
CHM121	Gen., Org., and Bio Chemistry I (lab) [^] ▲	4	CHM101 or Proficiency	
CHM122	Gen., Org., and Bio Chemistry II (lab)	4	CHM121	
CHM141	General Chemistry I (lab) [^] ▲	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
PHY101	Principles of Physics (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
PHY105	Astronomy (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY221	General Physics I with Calculus (lab)	5	MTH223 and Co-MTH224	
PHY222	General Physics II with Calculus (lab)	5	PHY221 and MTH224 and Co-MTH225	
CORE MATHEMATICS & DATA ANALYSIS COURSES: 29 credit hours required				
MTH124	Statistics [^] (required)	3	MTH093 ⁺⁺ or Proficiency	
BUS124	Business Analysis with Algebra	4		
ACC132	Financial Accounting	4	BUS124	
MTH223	Analytic Geometry and Calculus I [^] *	4	MTH135 or (MTH125 and MTH130) or Proficiency	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III	4	MTH224	
MTH226	Linear Algebra	3	MTH224	
MTH227	Ordinary Differential Equations	3	MTH224	
TOTAL CREDIT HOURS		62-64		

[^] Based upon SSC placement scores.

⁺⁺Minimum grade of “C” required.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students who do not test into Analytic Geometry and Calculus I will have to take either MTH135 or (MTH125 and MTH130) to satisfy the Analytic Geometry and Calculus I prerequisite. This will add an additional 5-7 credit hours to the degree total.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
MTH223	Analytic Geometry and Calculus I^*	4	MTH135 or (MTH125 and MTH130) or Proficiency
ENG124	College Composition^	3	ENG011 or Proficiency
BUS124	Business Analysis with Algebra	4	
BUS221	Microeconomics^	<u>3</u>	IDS102 or Proficiency
		15	
<u>Second Semester</u>			
MTH224	Analytic Geometry and Calculus II	4	MTH223
ACC132	Financial Accounting	4	BUS124
BUS222	Macroeconomics^	3	IDS102 or Proficiency
Arts & Humanities Elective ³		3	<i>Check for prerequisites</i>
Written & Oral Communication Elective ²		<u>3</u>	<i>Check for prerequisites</i>
		17	
<u>Third Semester</u>			
MTH225	Analytic Geometry and Calculus III	4	MTH224
MTH226	Linear Algebra	3	MTH224
Natural & Physical Sciences Elective ¹		4-5	<i>Check for prerequisites</i>
Arts & Humanities Elective ³		<u>3</u>	<i>Check for prerequisites</i>
		14-15	
<u>Fourth Semester</u>			
MTH227	Ordinary Differential Equations	3	MTH224
MTH124	Statistics^	3	MTH093++ or Proficiency
SOC225	Cultural Diversity	3	
Natural & Physical Sciences Elective ¹		4-5	<i>Check for prerequisites</i>
Arts & Humanities Elective ³		<u>3</u>	<i>Check for prerequisites</i>
		16-17	
TOTAL CREDITS		62-64	

^Based upon SSC placement scores.

^^To promote student success, this course should be taken in the first semester.

^Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students who do not test into Analytic Geometry and Calculus I will have to take either MTH135 or (MTH125 and MTH130) to satisfy the Analytic Geometry and Calculus I prerequisite. This will add an additional 5-7 credit hours to the degree total.

¹Natural & Physical Sciences Electives: BIO121, BIO122, BIO124, BIO126, BIO127, BIO129, BIO141, BIO142, BIO221, CHM101, CHM121, CHM122, CHM141, CHM142, PHY101, PHY121, PHY122, PHY105, PHY221, PHY222

²Written & Oral Communication Elective: COM122, COM123, COM125, COM121, ENG221, ENG230, ENG231

³Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122

SCIENCES

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.

In an effort to meet the needs of students, courses required in each of the programs are scheduled in sequence to accommodate those attending on a full-time or part-time basis. All students should consult their academic advisors to plan their schedules and course sequence appropriately. To keep pace with progress, the College reserves the right to change fees, academic programs, course descriptions or any other statements contained in this catalog at the discretion of the College or its Board of Trustees.



ASSOCIATE OF APPLIED SCIENCE BIOTECHNOLOGY

1516 Catalog
Effective Summer 2015

1150

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Sciences Division

Biology Department

TECHNICAL Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BST120	Introduction to Biotechnology	1		
BST121	Basic Biotechnology Methods (lab)	1	BST120 (pre/co-req)	
BST122	Advanced Biotechnology Methods [^] (lab)	3	BST121 and (MTH093 and MTH094) ⁺⁺ or Proficiency	
BST130	Biotechnology Seminar I	1		
BST221	Cell and Tissue Culture (lab) (1 st 8-weeks)	2	BST122	
BST222	Cellular and Subcellular Separations (lab)	3	BST122	
BST225	Biotechnology Instrumentation (lab) (2 nd 8-weeks)	2	BST122	
BST240	Bioinformatics (lab)	3		
BST250	Bioprocess and Manufacturing (lab)	3	BST122	
BIO242	Cell & Molecular Biology (lab)	4	BIO141	
SCI273	Special Topics in Science	3	<i>Sophomore in program</i>	
Total		26		
NON-TECH Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester</i>	
ENG124	College Composition [^]	3	ENG011 or Proficiency	
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH124	Statistics [^]	3	MTH093 ⁺⁺ or Proficiency	
BIO141	General Biology I (lab)	4		
BIO241	General Genetics (lab)	4	BIO141	
CHM141	General Chemistry I (lab) [▲]	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
PHL122	Ethics	3		
	<i>Select One (1) Biology Elective from the list below ¹</i>	4	<i>Check for prerequisite</i>	
Total		36		
TOTAL CREDIT HOURS		62		

[^] Based on SSC placement scores

^{^^} To promote student success, this course should be taken in the first semester

⁺⁺ Requires a grade of "C" or better

[▲] Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, or those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Biology Electives: BIO142 or BIO221

FULL-TIME STUDENT ADVISING NOTES

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Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BIO141	General Biology I (lab)	4	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
BST130	Biotechnology Seminar I	1	
BST120	Introduction to Biotechnology	1	
BST121	Basic Biotechnology Methods (lab)	<u>1</u>	BST120 (pre/co-req)
		12	
<u>Second Semester</u>			
ENG124	College Composition^	3	ENG011 or Proficiency
CHM141	General Chemistry I (lab)▲	5	CHM101 or Proficiency
BST122	Advanced Biotechnology Methods^(lab)	3	BST121 and (MTH093 and MTH094)++ or Proficiency
BST240	Bioinformatics	<u>3</u>	
		14	
<u>Summer</u>			
MTH124	Statistics^	3	MTH093++ or Proficiency
SCI273	Special Topics in Science	<u>3</u>	<i>Sophomore in program</i>
		6	
<u>Third Semester</u>			
BIO241	General Genetics (lab)	4	BIO141
CHM142	General Chemistry II (lab)	5	CHM141
BST221	Cell & Tissue Culture (lab) (1 st 8-weeks)	2	BST122
BST225	Biotechnology Instrumentation (lab) (2 nd 8-weeks)	2	BST122
BST222	Cellular & Subcellular Separations (lab)	<u>3</u>	BST122
		16	
<u>Fourth Semester</u>			
PHL122	Ethics	3	
BST250	Bioprocesses and Manufacturing (lab)	3	BST122
BIO242	Cell and Molecular Biology (lab)	4	BIO141
<i>Biology Elective</i> ¹		<u>4</u>	<i>Check for prerequisite</i>
		14	
TOTAL CREDITS		62	

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

++ Requires a grade of "C" or better

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry and biology in high school. Students who did not complete the courses in high school, or those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Biology Electives: BIO142 or BIO221



CAREER ENHANCEMENT CERTIFICATE

BIOTECHNOLOGY

1516 Catalog
Effective Summer 2015

1151

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

Sciences Division

Biology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
BST120	Introduction to Biotechnology	1		
BST121	Basic Biotechnology Methods (lab)	1	BST120 (pre/co-req)	
BST122	Advanced Biotechnology Methods [^] (lab)	3	BST121 and [(MTH093 and MTH094) ⁺⁺ or Proficiency]	
BST130	Biotechnology Seminar I	1		
BIOTECHNOLOGY ELECTIVE: Select one course below*				
BST221	Cell and Tissue Culture	2	BST122	
BST240	Bioinformatics	3		
MATHEMATICS: Select one course below				
MTH125	College Algebra [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH124	Statistics [^]	3	MTH093 ⁺⁺ or Proficiency	
SCIENCES: Select one course below**				
BIO141	General Biology I (lab)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM141	General Chemistry I(lab) [^]	5	CHM101 or Proficiency	
	TOTAL CREDIT HOURS	15-18		

[^]Based upon SSC placement score

⁺⁺Minimum grade of "C" required

[^] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students may elect to take BST221 or BST240 depending on their desired career path.

**Students may elect to take BIO141 or CHM141 depending on their desired career path.

Please see reverse side for Biotechnology specialization tracks.

All courses listed as options are required for the AAS Degree in Biotechnology.

1516 Catalog Effective Summer 2015	CAREER ENHANCEMENT CERTIFICATE BIOTECHNOLOGY	1151

STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time students who plan to finish in one year.

GENERAL BIOTECHNOLOGY LAB TECHNICIAN TRACK

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
BIO141	General Biology I (lab)**	4	
or	or		
CHM141	General Chemistry I (lab)▲**	5	CHM101 or Proficiency
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency
BST120	Introduction to Biotechnology	1	
BST121	Basic Biotechnology Methods (lab)	<u>1</u>	BST120 (pre/co-req)
		10-11	
<u>Second Semester</u>			
BST122	Advanced Biotechnology Methods^(lab)	3	BST121 and [(MTH093 and MTH094)++ or Proficiency]
BST130	Biotechnology Seminar I	1	
BST240	Bioinformatics*	3	
or	or		
<u>Summer Semester</u>			
BST221	Cell and Tissue Culture*	<u>2</u>	BST122
		6-7	
		16-18	

CLINICAL-BASED STERILE TECHNIQUE TRACK

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141
MTH124	Statistics^	3	MTH093++ or Proficiency
BST120	Introduction to Biotechnology	1	
BST121	Basic Biotechnology Methods (lab)	<u>1</u>	BST120 (pre/co-req)
		9	
<u>Second Semester</u>			
BST122	Advanced Biotechnology Methods^(lab)	3	BST121 and [(MTH093 and MTH094)++ or Proficiency]
BST130	Biotechnology Seminar I	<u>1</u>	
		4	
<u>Summer Semester</u>			
BST221	Cell and Tissue Culture*	<u>2</u>	BST122
		2	
	TOTAL CREDITS	15	

^Based upon SSC placement score

++Minimum grade of "C" required

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

*Students may elect to take BST221 or BST240 depending on their desired career path.

**Students may elect to take BIO141 or CHM141 depending on their desired career path.

All courses listed as options are required for the AAS Degree in Biotechnology.



ASSOCIATE OF SCIENCE CHEMISTRY

1516 Catalog
Effective Summer 2015

1260

Sciences Division

Chemistry Department

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION:				
ENG124	College Composition^	3	ENG011 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES: 6 credit hours minimum				
BUS122	Basic Economics^	3	IDS102 or Proficiency	
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY124	Industrial/Organizational Psychology	3		
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
ARTS & HUMANITIES: 6 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
ENG233	British Literature; Med to 1785	3	ENG124	
ENG234	British Literature; 1785 to Present	3	ENG124	
ENG236	American Literature; Colonial to 1865	3	ENG124	
ENG237	American Literature; 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		
PHL122	Ethics (<i>recommended</i>)	3		
MATHEMATICS: 9 credit hours minimum				
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. (required)	5	(MTH093 and MTH094)++ or Proficiency	
MTH223	Analytic Geometry and Calculus I^(required)	4	MTH135	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III*	4	MTH224	

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

++Requires a grade of “C” or better

*Required if also taking PHY222

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NATURAL & PHYSICAL SCIENCES: 15 credit hours required				
CHM141	General Chemistry I (lab) [^]	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
CHM241	Organic Chemistry I (lab)	5	CHM142	
CONCENTRATION CORE: Choose from the following groups:				
CHM242	Organic Chemistry II (lab) (required)	5	CHM241	
AND				
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
OR				
PHY221	General Physics I with Calculus (lab)	5	Pre-MTH223 and Co-MTH224	
PHY222	General Physics II with Calculus (lab)	5	PHY221 and MTH224 and Co-MTH225	
OR				
CHM243	Biochemistry I	3	CHM121 or CHM141	
CHM244	Biochemistry II	3	CHM243	
BIO241	General Genetics (lab)	4	BIO141	
ELECTIVES – Select additional courses to complete the total of 60-65 credit hours.				
BIO141	General Biology I (lab)**	4		
BIO142	General Biology II (lab)	4		
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
ENG231	College Composition II	3	ENG124	
CSE122	Programming Logic and Problem Solving [^]	3	(IDS102 or Proficiency) and (ITD100 or Proficiency)	
GEO141	Physical Geology (lab)	4		
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
MTH124	Statistics [^]	3	MTH093++ or Proficiency	
PHY105	Astronomy (lab) [^]	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
SCI273	Special Topics in Science	3	<i>Sophomore in Program</i>	
TOTAL CREDIT HOURS		60-65		

[^] Based on SSC placement scores

++Requires a grade of "C" or better

**Required if taking BIO241

[^] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time students who plan to finish in two years.

Elective Additional Credit

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
CHM141	General Chemistry I (lab)▲	5	CHM101 or Proficiency
SOC225	Cultural Diversity	3	
ENG124	College Composition^	3	ENG011 or Proficiency
MTH135	Precalculus^	<u>5</u>	(MTH093 and MTH094)++
		17	or Proficiency
<u>Second Semester</u>			
CHM142	General Chemistry II (lab)	5	CHM141
<i>Social & Behavioral Sciences Elective</i> ¹		3	<i>Check for prerequisite</i>
<i>Arts & Humanities Elective</i> ²		3	<i>Check for prerequisite</i>
MTH223	Analytic Geometry and Calculus I^	<u>4</u>	MTH135
		15	
<u>Third Semester</u>			
CHM241	Organic Chemistry I (lab)	5	CHM142
<i>Concentration Core</i> ⁴		3-5	<i>Check for prerequisite</i>
<i>Social & Behavioral Sciences Elective</i> ¹		3	<i>Check for prerequisite</i>
<i>Elective</i> ^{3,5}		<u>3-4</u>	<i>Check for prerequisite</i>
		14-17	
<u>Fourth Semester</u>			
CHM242	Organic Chemistry II (lab)	5	CHM241
<i>Concentration Core</i> ⁴		4-7	<i>Check for prerequisite</i>
<i>Elective(s)</i> ^{5,6}		<u>3-4</u>	<i>Check for prerequisite</i>
		12-16	
TOTAL CREDITS		60-65	

^Based on SSC placement scores

^^To promote student success, this course should be taken in the first semester

++Requires a grade of "C" or better

▲Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Social & Behavioral Science Elective: BUS122, PSY121, PSY124, SOC121, SOC122

² Arts & Humanities Elective: Select from ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, PHL122 (*recommended*)

³ Mathematics Electives: MTH224, MTH225*

⁴ Concentration Core Options: (PHY121 and PHY122) or (PHY221 and PHY222) or (CHM243, CHM244 and BIO241)

⁵ Electives: BIO141**, BIO142, COM121, COM122, CSE122, ENG231, GEO141, ITD122, MTH124, PHY105, SCI273

⁶ Select additional courses to complete the total of 60-65 credit hours.

* Required if also taking PHY222

** Required if also taking BIO241



ASSOCIATE OF SCIENCE BIOLOGY

1516 Catalog

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*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Sciences Division

Biology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN AND ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition^ (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
SOCIAL & BEHAVIORAL SCIENCES: 6 credit hours minimum				
PSY121	General Psychology^	3	IDS102 or Proficiency	
SOC121	Sociology^	3	IDS102 or Proficiency	
BUS122	Basic Economics^	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 6 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
PHL122	Ethics (recommended)	3		
MATHEMATICS: 4 credit hours minimum				
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
MTH135	Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. (recommended)	5	(MTH093 and MTH094)++ or Proficiency	

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

++Requires a grade of “C” or better

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NATURAL AND PHYSICAL SCIENCES: 14 credit hours required				
BIO141	General Biology I (lab)	4		
CHM141	General Chemistry I (lab) [^]	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
BIOLOGY CORE: 12 credit hours minimum				
BIO142	General Biology II (lab) (required)	4		
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
BIO241	General Genetics (lab)	4	BIO141	
BIO242	Cell and Molecular Biology (lab)	4	BIO141	
ECO241	Ecology (lab)	4	BIO142	
CONCENTRATION GROUP ELECTIVES: Choose from one of the following groups				
CHM241	Organic Chemistry I (lab)	5	CHM142	
CHM242	Organic Chemistry II (lab)	5	CHM241	
OR				
CHM243	Biochemistry I	3	CHM121 or CHM141	
CHM244	Biochemistry II	3	CHM243	
MTH124	Statistics [^]	3	MTH093++ or Proficiency	
OR				
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
CAPSTONE				
SCI273	Special Topics in Science	3	<i>Sophomore in program</i>	
TOTAL CREDIT HOURS (60 credits minimum)		60-63		

[^] Based on SSC placement scores

^{^^} To promote student success, this course should be taken in the first semester

⁺⁺ Requires a grade of "C" or better

[^] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time students who plan to finish in two years.

Elective Additional Credit

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	Take first semester
BIO141	General Biology I (lab)	4	
CHM141	General Chemistry I^ (lab)▲	5	CHM101 or Proficiency
Mathematics Elective ⁴		4-5	Check for prerequisite
		14-15	
<u>Second Semester</u>			
BIO142	General Biology II (lab)	4	
CHM142	General Chemistry II (lab)	5	CHM141
ENG124	College Composition^	3	ENG011 or Proficiency
Social & Behavioral Science Elective ²		3	Check for prerequisite
		15	
<u>Summer</u>			
Written & Oral Communication Elective ¹		3	Check for prerequisite
Concentration Group Elective ⁶		3-5	Check for prerequisite
		6-8	
<u>Third Semester</u>			
Biology Core Elective ⁵		4	Check for prerequisite
SOC225	Cultural Diversity	3	
Arts & Humanities Elective ³		3	Check for prerequisite
Concentration Group Elective ⁶		3-5	Check for prerequisite
		13-15	
<u>Fourth Semester</u>			
SCI273	Special Topics in Science	3	Sophomore in program
Social & Behavioral Science Elective ²		3	Check for prerequisite
Biology Core Elective ⁵		4	Check for prerequisite
Concentration Group Elective ⁶		3-5	Check for prerequisite
		13-15	
TOTAL CREDITS		60-63	

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

++ Requires a grade of "C" or better

▲ Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Written & Oral Communication Elective: ENG221, ENG231, COM121, COM122

² Social & Behavioral Sciences Elective: PSY121, SOC121, BUS122

³ Arts & Humanities Elective: HIS121, HIS122, ENG233, ENG234, ENG236, ENG237, PHL122 (*recommended*)

⁴ Mathematics Elective: MTH125 or MTH135 (*recommended*)

⁵ Biology Core Electives: BIO221, BIO241, BIO242, ECO241

⁶ Concentration Group Electives: (CHM241 and CHM242) or (CHM243, CHM244, MTH124) or (PHY121 and PHY122)



ASSOCIATE OF SCIENCE

PRE-MEDICAL PROFESSIONAL CONCENTRATION (Pre-Pharmacy, Pre-Medicine, Pre-Dentistry, Pre-Veterinary)

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

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Sciences Division

Biology Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar ^{^^}	1	Take first semester	
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition [^] (required)	3	ENG011 or Proficiency	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
SOCIAL & BEHAVIORAL SCIENCES: 6 credit hours minimum				
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 6 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
PHL122	Ethics (recommended)	3		
MATHEMATICS: 5 credit hours minimum				
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. (required)	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
NATURAL & PHYSICAL SCIENCES: 13 credit hours minimum (1 lab course required)				
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
CHM141	General Chemistry I (lab) [▲]	5	CHM101 or Proficiency	
GENERAL EDUCATION CREDIT TOTAL		37		

[^]Based upon SSC placement score

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Requires a grade of "C" or better.

[▲] Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry in high school. Students who did not complete chemistry in high school, or who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

1516 Catalog Effective Summer 2015	PRE-MEDICAL PROFESSIONAL CONCENTRATION (Pre-Pharmacy, Pre-Medicine, Pre-Dentistry, Pre-Veterinary)	1280

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CONCENTRATION CORE				
CHM142	General Chemistry II (lab)	5	CHM141	
CHM241	Organic Chemistry I (lab)	5	CHM142	
CHM242	Organic Chemistry II (lab)	5	CHM241	
MTH124	Statistics [^]	3	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH223	Analytic Geometry –Calculus I [^]	4	MTH135 or (MTH125 and MTH130) or Proficiency	
CONCENTRATION ELECTIVES – <i>Select additional courses to complete the total of 62 - 63 credit hours*</i>				
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO144	
BIO241	General Genetics (lab)	4	BIO141	
BIO242	Cell & Molecular Biology (lab)	4	BIO141	
CHM243	Biochemistry I	3	CHM141	
CHM244	Biochemistry II	3	CHM243	
BUS122	Basic Economics	3	IDS102 or Proficiency	
PHY121	College Physics I with Algebra (lab)	4	MTH135	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
TOTAL CREDIT HOURS		62-63		

[^]Based upon SSC placement score

⁺⁺Requires a grade of “C” or better.

*Please obtain the complete list of entrance requirements for the professional medical school(s) to which you would like to apply and consult your academic advisor to determine what electives to take.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing on the next page provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of courses and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

1516 Catalog Effective Summer 2015	PRE-MEDICAL PROFESSIONAL CONCENTRATION (Pre-Pharmacy, Pre-Medicine, Pre-Dentistry, Pre-Veterinary)	1280

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar^^	1	<i>Take first semester</i>
BIO141	General Biology I (lab)	4	
CHM141	General Chemistry I (lab)^ ▲	5	CHM101 or Proficiency
MTH135^	Precalculus – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	<u>5</u>	(MTH093 and MTH094)++ or Proficiency
		15	
<u>Second Semester</u>			
BIO142	General Biology II (lab)	4	
CHM142	General Chemistry II (lab)	5	CHM141
ENG124	College Composition	3	ENG011 or Proficiency
Arts & Humanities Elective ²		<u>3</u>	<i>Check for prerequisite</i>
		15	
<u>Third Semester (Summer)</u>			
SOC225	Cultural Diversity	3	
PSY121	General Psychology^	<u>3</u>	IDS102 or Proficiency
		6	
<u>Fourth Semester</u>			
CHM241	Organic Chemistry I (lab)	5	CHM142
		4	MTH135 or
MTH223	Analytic Geometry – Calculus I^		(MTH125 and MTH130) or Proficiency
Written and Oral Communication Elective ¹		<u>3</u>	<i>Check for prerequisite</i>
		12	
<u>Fifth Semester</u>			
CHM242	Organic Chemistry II (lab)	5	CHM241
MTH124	Statistics^	3	(MTH093 and MTH094)++ or Proficiency
SOC121	Sociology^	3	IDS102 or Proficiency
Concentration Elective ^{3*}		3 - 4	<i>Check for prerequisite</i>
		14-15	
	TOTAL CREDITS	62-63	

^Based upon SSC placement score

^^To promote student success, this course should be taken in the first semester

++Requires a grade of "C" or better.

▲ Because of the strong emphasis on science in this major, applicants must have successfully completed chemistry in high school. Students who did not complete chemistry in high school, or who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Written & Oral Communication Elective: COM121, COM122, ENG231

² Arts & Humanities Electives: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, PHL122 (*recommended*)

³ Concentration Electives: BIO221, BIO241, BIO242, CHM243, CHM244, BUS122, PHY121, PHY222

* Please obtain the complete list of entrance requirements for the professional medical school(s) to which you would like to apply and consult your academic advisor to determine what electives to take.



ASSOCIATE OF SCIENCE

ASSOCIATE OF SCIENCE - GENERAL

The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing.

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Sciences Division

Physics Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar [^]	1	Take first semester	
COMPUTER APPLICATIONS				
ITD122	Computer Applications for Professionals [^] (required)	3	ITD100 or Proficiency	
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition [^] (required)	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
ENG230	Business Communication	3	ENG124	
ENG231	College Composition II	3	ENG124	
COM121	Effective Speaking	3		
COM122	Interpersonal Communication	3		
COM123	Small Group Communication	3	ENG124	
COM125	Introduction to Communication Theory [^]	3	IDS102 or Proficiency	
SOCIAL & BEHAVIORAL SCIENCES: 9 credit hours minimum				
PSC121	Political Science	3		
PSY121	General Psychology [^]	3	IDS102 or Proficiency	
PSY122	Psychology of Adjustment	3		
PSY123	Human Growth & Development	3	PSY121	
PSY124	Industrial/Organizational Psychology	3		
PSY220	Social Psychology	3	PSY121	
PSY221	Abnormal Psychology	3	PSY121	
SOC121	Sociology [^]	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
SOC123	Dynamics of the Family	3		
SOC221	Social Problems	3	SOC121	
BUS122	Basic Economics [^]	3	IDS102 or Proficiency	
BUS221	Microeconomics [^]	3	IDS102 or Proficiency	
BUS222	Macroeconomics [^]	3	IDS102 or Proficiency	

[^] Based on SSC placement scores

^{^^} To promote student success, this course should be taken in the first semester

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
ARTS & HUMANITIES: 6 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization from 17 th Century	3		
PHL122	Ethics	3		
SCIENCES & MATHEMATICS				
<u>Natural and Physical Sciences: 12 credit hours minimum (1 lab course required)</u>				
BIO101	Introduction to Anatomy and Physiology [^]	3	IDS102 or Proficiency	
BIO121	Anatomy and Physiology I (lab)	4	BIO101 or Proficiency	
BIO122	Anatomy and Physiology II (lab)	4	BIO121 or BIO123	
BIO124	Human Diseases	3	BIO122 or BIO123	
BIO125	Medical Terminology	3		
BIO126	Science, Energy, & the Environment (lab)	4		
BIO127	Human Biology (lab)	4		
BIO128	Climate Studies (lab)	3		
BIO129	Meteorology (lab)	3		
BIO130	Ocean Studies (lab)	3		
BIO141	General Biology I (lab)	4		
BIO142	General Biology II (lab)	4		
BIO241	General Genetics (lab)	4	BIO141	
BIO242	Cell & Molecular Biology (lab)	4	BIO141	
BIO221	Principles of Microbiology (lab)	4	BIO122 or BIO123 or BIO141	
CHM101	Introduction to Chemistry [^]	4	(MTH093 and MTH094) ⁺⁺ or Proficiency	
CHM121	Gen., Org., & Bio Chemistry I (lab)	4	CHM101 or Proficiency	
CHM122	Gen., Org., & Bio Chemistry II (lab)	4	CHM121	
CHM141	General Chemistry I (lab)	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	

[^] Based on SSC placement scores

⁺⁺ Requires a grade of "C" or better

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
CHM241	Organic Chemistry I (lab)	5	CHM142	
CHM242	Organic Chemistry II (lab)	5	CHM241	
GEO141	Physical Geology (lab)	4		
PHY101	Principles of Physics (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY105	Astronomy (lab)^	4	[(MTH093 and MTH094)++ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY121	College Physics I with Algebra (lab)	4	MTH135 or (MTH125 and MTH130)	
PHY122	College Physics II with Algebra (lab)	4	PHY121	
PHY221	General Physics I with Calculus (lab)	5	MTH223 and Co-MTH224	
PHY222	General Physics II with Calculus (lab)	5	PHY221 and MTH224 and Co-MTH225	
Mathematics: 3-5 credit hours minimum				
MTH124	Statistics^	3	MTH093++ or Proficiency	
MTH125	College Algebra^	4	(MTH093 and MTH094)++ or Proficiency	
MTH130	Trigonometry	3	MTH125	
MTH135	Precalculus^— A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.	5	(MTH093 and MTH094)++ or Proficiency	
MTH221	Concepts of Calculus^	3	MTH135	
MTH223	Analytic Geometry and Calculus I^	4	MTH135	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III	3	MTH224	
MTH226	Linear Algebra	3	MTH224	
MTH227	Ordinary Differential Equations	3	MTH224	
ADDITIONAL ELECTIVES TO COMPLETE DEGREE*		18-25		
TOTAL CREDIT HOURS (60 credit minimum)		60-65		

^ Based on SSC placement scores

++Requires a grade of "C" or better

*Additional Electives: Choose from previous pages or the additional electives list shown on the next page.

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ASSOCIATE OF SCIENCE ELECTIVES

The Associate of Science Degree requires a **minimum of 60 credit hours**. Students should select a minimum of 40 credit hours from the previous pages. They must further choose 18-25 elective credit hours from the previous pages or the list below. Alternatively, students may seek approval from the department chair for other related electives. Please see your academic advisor for assistance with course selection.

ADDITIONAL ARTS & SCIENCES COURSES	
Biology	Biotechnology
BIO123 Principles of Human Structure & Function (lab)# (5)	BST120 Introduction to Biotechnology (1)
BIO222 Pharmacology (3)	BST121 Basic Biotech Methods (lab) (1)
ECO241 Ecology (lab) (4)	BST122 Advanced Biotech Methods (lab) (3)
	BST130 Biotech Seminar I (1)
	BST221 Cell & Tissue Culture (2)
Chemistry	BST222 Cellular & Subcellular Separation (3)
CHM243 Biochemistry I (3)	BST225 Biotech Instrumentation (lab) (2)
CHM244 Biochemistry II (3)	BST240 Bioinformatics (lab) (3)
	BST250 Bioprocesses & Manufacturing (lab)(3)
Communications	
COM223 Interviewing (3)	Computational Science
	CST120 Computational Science Methods (3)
English	CST121 Modeling & Simulation (lab) (3)
ENG125 Technical Editing & Layout (3)	CST221 Computational Biology (4)
ENG222 Medical Technology Report Writing (3)	
ENG227 Writing for Media (3)	Social and Behavioral Sciences
ENG228 Writing for the Web (3)	GER121 Introduction to Gerontology (3)
ENG229 Grant Writing (3)	GER122 Psychosocial Aspects of Aging (3)
CHN100 Elementary Chinese I (4)	PSY222 Psychological Aspects of Therapy (3)
CHN200 Elementary Chinese II (4)	SOC124 US Social Systems (3)
SPN100 Elementary Spanish I (4)	SOC222 Juvenile Delinquency (3)
SPN200 Elementary Spanish II (4)	

#BIO121 and BIO122 may be substituted for BIO123.

FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.



ASSOCIATE OF SCIENCE PHYSICS

1516 Catalog

Effective Summer 2015

7107

*The catalog in force is assigned to students based on the academic year they first applied to the college,
and changes only when students change their major or request the change in writing.*

Sciences Division

Physics Department

Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
FRESHMAN EXPERIENCE				
SSC101	Student Success Seminar^^	1	Take first semester	
WRITTEN & ORAL COMMUNICATION: 6 credit hours minimum				
ENG124	College Composition^	3	ENG011 or Proficiency	
ENG221	Technical Report Writing	3	ENG124	
SOCIAL & BEHAVIORAL SCIENCES: 6 credit hours minimum				
PSY121	General Psychology^	3	IDS102 or Proficiency	
PSY124	Industrial/Organizational Psychology	3		
PSY220	Social Psychology	3	PSY121	
SOC121	Sociology^	3	IDS102 or Proficiency	
SOC122	Society and Technology	3		
PSC121	Political Science	3		
BUS122	Basic Economics^	3	IDS102 or Proficiency	
BUS221	Microeconomics^	3	IDS102 or Proficiency	
BUS222	Macroeconomics^	3	IDS102 or Proficiency	
ARTS & HUMANITIES: 6 credit hours minimum				
SOC225	Cultural Diversity (required)	3		
ENG233	British Literature: Med to 1785	3	ENG124	
ENG234	British Literature: 1785 to Present	3	ENG124	
ENG236	American Literature: Colonial to 1865	3	ENG124	
ENG237	American Literature: 1865 to Present	3	ENG124	
HIS121	U.S. History I to 1877	3		
HIS122	U.S. History II from 1877	3		
HIS221	World Civilization to 17 th Century	3		
HIS222	World Civilization From 17 th Century	3		
PHL122	Ethics	3		

^ Based on SSC placement scores

^^ To promote student success, this course should be taken in the first semester

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Course Number	Course Title	Credits	Pre- and Co-Requisites	Completed Sem./Year
MATHEMATICS: 9 credit hours minimum				
MTH135	Precalculus [^] – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. (required)	5	(MTH093 and MTH094) ⁺⁺ or Proficiency	
MTH223	Analytic Geometry and Calculus I [^]	4	MTH135 or (MTH125 and MTH130) or Proficiency	
NATURAL & PHYSICAL SCIENCES: 9 credit hours required				
PHY105	Astronomy (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)	
PHY221	General Physics I with Calculus (lab)	5	MTH223 and Co-MTH224	
CONCENTRATION CORE: 13 credit hours required				
PHY222	General Physics II with Calculus (lab)	5	PHY221 and MTH224 and Co-MTH225	
MTH224	Analytic Geometry and Calculus II	4	MTH223	
MTH225	Analytic Geometry and Calculus III	4	MTH224	
CONCENTRATION ELECTIVES – Select additional courses to complete the total of 60-65 credit hours.				
MTH226	Linear Algebra	3	MTH224	
MTH227	Ordinary Differential Equations	3	MTH224	
CHM141	General Chemistry I (lab) [^]	5	CHM101 or Proficiency	
CHM142	General Chemistry II (lab)	5	CHM141	
CST120	Computational Science Methods	3	MTH135	
CST121	Modeling & Simulation	3	MTH221 or MTH223	
ITD122	Computer Applications for Professionals [^]	3	ITD100 or Proficiency	
SCI273	Special Topics in Science	3	<i>Sophomore in program</i>	
TOTAL CREDIT HOURS (60 credits minimum)		60-65		

[^]Based on SSC placement scores

⁺⁺Requires a grade of “C” or better

[^] Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school. Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

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FULL-TIME STUDENT ADVISING NOTES

Academic Advising

Students should make an appointment to see their advisor before registering for classes each semester. They should have prepared a completed registration form, including courses they wish to take, prior to this meeting.

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for full-time associate degree students who plan to finish in two years.

Elective Additional Credit

Self-selection of course and not following the approved degree program could adversely affect graduation, transfer to a 4-year institution, and financial aid. Visit u-select at <http://www.transfer.org/uselect> to assist in developing a plan for transferring to another college or university. Students should select Ohio Transfer Module approved and TAG approved courses.

Bachelor's Degree

Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

<u>First Semester</u>		<u>Credit Hours</u>	<u>Pre- and Co-requisites</u>
SSC101	Student Success Seminar ^{^^}	1	<i>Take first semester.</i>
PHY105	Astronomy (lab) [^]	4	[(MTH093 and MTH094) ⁺⁺ or Proficiency] or (MTH105 or MTH106 or MTH107 or MTH108) and (IDS102 or Proficiency)
ENG124	College Composition [^]	3	ENG011 or Proficiency
MTH135	Precalculus [^]	5	(MTH093 and MTH094) ⁺⁺ or Proficiency
SOC225	Cultural Diversity	<u>3</u>	
		16	
<u>Second Semester</u>			
ENG221	Technical Report Writing	3	ENG124
MTH223	Analytic Geometry and Calculus I [^]	4	MTH135 or (MTH125 and MTH130) or Proficiency
<i>Concentration Elective</i> ^{3,4}		3-5	<i>Check for prerequisite</i>
<i>Concentration Elective</i> ^{3,4}		<u>3</u>	<i>Check for prerequisite</i>
		13-15	
<u>Summer Semester</u>			
<i>Arts & Humanities Elective</i> ¹		3	<i>Check for prerequisite</i>
<i>Social & Behavioral Science Elective</i> ²		<u>3</u>	<i>Check for prerequisite</i>
		6	
<u>Fall Semester</u>			
PHY221	General Physics I with Calculus (lab)	5	MTH223 and Co-MTH224
MTH224	Analytic Geometry and Calculus II	4	MTH223
<i>Social & Behavioral Science Elective</i> ²		<u>3</u>	<i>Check for prerequisite</i>
		12	
<u>Spring Semester</u>			
MTH225	Analytic Geometry and Calculus III	4	MTH224
PHY222	General Physics II with Calculus (lab)	5	PHY221 and MTH224 and Co-MTH225
<i>Concentration Elective</i> ^{3,4}		<u>3-5</u>	<i>Check for prerequisite</i>
		12-14	
TOTAL CREDITS		60-65	

[^]Based on SSC placement scores

^{^^}To promote student success, this course should be taken in the first semester

⁺⁺Requires a grade of "C" or better

[▲]Because of strong emphasis on science in this major, applicants must have successfully completed Chemistry and Biology in high school.

Students who did not complete the courses in high school, and those who prefer to refresh their knowledge of the material, should complete the listed pre-requisites.

¹ Arts & Humanities Elective: ENG233, ENG234, ENG236, ENG237, HIS121, HIS122, HIS221, HIS222, or PHL122

² Social & Behavioral Science Elective: BUS122, BUS221, BUS222, PSC121, PSY121, PSY124, PSY220, SOC121, SOC122

³ Concentration Elective: CHM141 [▲], CHM142, CST120, CST121, ITD122, MTH226, MTH227 or SCI273

⁴ Select additional courses to complete the total of 60-65 credit hours



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Business/ Entrepreneurial

Accounting/Finance

ACC121 PRINC OF ACCOUNTING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is an introduction to accounting which covers the accounting cycle and generally accepted accounting principles and practices in financial accounting as applied to business entities. Upon completion of this course, students should be able to analyze and record transactions, prepare financial statements and use financial information in decision making.

Pre-reqs:

ACC124 INDIVIDUAL TAXATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines principles of taxation for individuals, including computation of income and deductions, both personal and for the taxpayer's businesses and income-producing properties. In addition, cost recovery, gains and losses, tax credits, and the overall classifications and filing statuses are discussed. Students will prepare a comprehensive tax case on IRS tax forms to gain practical knowledge. Upon completion of the course, the student should be able to analyze complex tax scenarios and determine their impact on an individual's tax liability.

Pre-reqs:

ACC132

Can be Taken Concurrently

ACC130 BUSINESS LAW AND ETHICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of the functions of the legal system in the business environment. This course includes the study of traditional business law topics and other basic topics applicable to business. A close examination of the intersection between professional ethical decision-making and the legal system as it applies to business. Upon completion, students should be able to demonstrate competence in the fundamental concepts of business law and ethics. TAG approved course-OBU004 effective Fall 2005.

Pre-reqs:



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Business/ Entrepreneurial

Accounting/Finance

ACC132 FINANCIAL ACCOUNTING

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course introduces the student to the fundamental processes of accounting through coverage of the accounting cycle consisting of transaction analysis, the recording function and financial statement preparation and analysis. Course coverage continues with a review of receivables; inventory, property, plant and equipment; bonds and stockholder's equity. Emphasis is given to why certain procedures are followed and their financial statement impact. Students may elect to take ACC121, Principles of Accounting, as an introduction to accounting prior to taking this course. TAG approved course- OBU010, effective summer 2015.

Pre-reqs:

BUS123

Or BUS124

ACC133 MANAGERIAL ACCOUNTING

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

The emphasis in this course is on the use of accounting information as an internal tool for planning and control. Course coverage includes ratios, cost behavior, cost accumulation and reporting, cost-volume-profit analysis, budgeting, and other decision criteria. While primary coverage will be of this material in a manufacturing setting, service and merchandising applications will also be presented. Upon completion of this course, students should be able to apply the fundamental concepts of managerial accounting to a variety of business decisions. TAG approved course- OBU011, effective summer 2015.

Pre-reqs:

ACC132

ACC221 INTERMEDIATE ACCT I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This is the first in a two-course sequence in the detailed study of accounting theory. It is a study of the conceptual framework of accounting, disclosure standards for general purpose financial statements, and measurement standards for assets, and associated revenues and expenses, including application of compound interest techniques. Upon completion, students should be able to demonstrate competence in applying generally accepted accounting principles in the preparation of financial statements.

Pre-reqs:

ACC132



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Business/ Entrepreneurial

Accounting/Finance

ACC222 INTERMEDIATE ACCT II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This is the completion of a two-course sequence in the study of accounting theory. In this semester, students become more involved in the discussion of the intention of management in engaging in certain types of transactions and the impact of alternate methods of reporting in the financial statements. The subject areas studied include long-term debt, intercorporate investments, corporate equity matters, earnings per share, revenue recognition, pensions, leases, cash flow statements, and accounting for income taxes. Some review items include certain analytical ratios and other concepts underlying the preparation of meaningful and complete financial statements. Upon completion of the course, students should be able to demonstrate competence in recognition of important disclosures in financial statements, discuss and evaluate alternative accounting methods and apply generally accepted accounting principles to the preparation of financial statements, including the statement of cash flows.

Pre-reqs:

ACC221

ACC223 COST ACCOUNTING

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course places an emphasis on manufacturing and service organizations. Course coverage includes job costing, process costing, activity-based costing/activity-based management, standard costing, and analysis of cost variances. Upon completion of this course, the student should be able to apply fundamental concepts of cost accounting in making business decisions.

Pre-reqs:

ACC133

ACC225 AUDITING

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Emphasis is placed on the philosophy and environment of the public accounting profession, with special attention paid to the nature and economic purpose of audit and assurance services, professional standards, professional conduct, legal liability, audit evidence, audit planning, consideration of internal control, audit sampling, audit workpapers and SOX compliance.. Upon completion, students should be able to demonstrate competence in applying the generally accepted auditing standards and the procedures for conducting audits of public and non-public companies.

Pre-reqs:

ACC222

Can be Taken Concurrently



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ACC226 ADVANCED ACCOUNTING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers higher level accounting topics including business combinations and consolidations, accounting for partnerships, as well as the fundamentals of derivatives and the accountant's role in estates and trusts. Consolidation topics include an understanding of the entries necessary to prepare consolidated financial statements including elimination entries for inter-company sales, loans, asset and inventory transfers and preparation of consolidated statement of cash flows. Topics also include understanding the international business environment. Upon completion of the course, the student should understand the fundamentals of consolidations, partnerships, derivatives, and estates and trusts.

Pre-reqs:

ACC222

Can be Taken Concurrently

ACC227 PAYROLL ACCOUNTING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is the first course in a two-course sequence in payroll accounting. This course is focused to the Fundamental Payroll Certification and upon completion of the two courses the students should be prepared to take the Fundamental Payroll Exam, administered by the American Payroll Association. Specifically, this course covers the study of payroll, records keeping regulations, tax reporting requirements, accounting procedures and journal entries, and mandatory deductions of various taxes. Also covered is the employer's related taxes and preparation of various payroll tax forms, the Fair Labor Standards Act, and other Federal and State laws that regulate payroll.

Pre-reqs:

ACC121

Can be Taken Concurrently

Or ACC132

Can be Taken Concurrently

ACC228 BUSINESS TAXATION

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course examines the principles of taxation of C-Corporations, S-Corporations and Partnerships contrasting the traditional taxable entities with flow-through entities. Students complete tax returns for all three types of entities to gain practical, applied knowledge. In addition, complex analysis of basis and various types of gains and losses is performed as well as extensive study of cost recovery. Upon completion of the course, the student should be able to analyze complex tax scenarios of the various forms of a business entity and determine their impact on the entity's liability.

Pre-reqs:

ACC132



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ACC229 COMPUTERIZED ACCTG APPLICATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course involves the application of the student's accounting knowledge in a computerized setting. The student will record and report accounting information using various commercial accounting packages, including but not limited to QuickBooks Pro and Excel, and practice in problem solving and meeting project deadlines throughout the course. Upon completion, the student should have a functional knowledge of computerized accounting applications and procedures.

Pre-reqs:

And ACC121

Or ACC132

AOT226

Or ITD122

ACC232 GOVT AND NOT-FOR-PRFT ACCT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces students to the accounting requirements for governmental and other not-for-profit entities. Students will gain a working knowledge to prepare and interpret accounting and financial information of various state and local governments under the Governmental Accounting Standards Board (GASB) and not-for-profit organizations under the Financial Accounting Standards Board (FASB) as well as governmental and not-for-profit health care organizations and educational institutions. Upon completion, the student should have a working knowledge of the budgetary and operational accounting and financial reporting of governmental and not-for-profit entities.

Pre-reqs:

ACC132

ACC234 ADVANCED PAYROLL

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is the second course in a two-course sequence on payroll accounting. Emphasis is placed on payroll laws and Federal Acts. Payroll Accounting Systems are discussed in detail. Additional topics include employee versus independent contractor, special pay situations, self-employment, payment of federal payroll taxes, penalties, taxable fringe benefits, supplemental pay, the gross-up of supplemental pay, and the advanced earned income credit. The completion of Federal, State, and Local Payroll Tax Forms will be reviewed and practiced including Form 941, W-2, W-3, 1099, 1096, W-4, W-5, State Unemployment, Bureau of Workers Compensation, State Income Tax Withholding. This course is geared to the Fundamental Payroll Certification and upon completion of this course, the student should be prepared to take the Fundamental Payroll Exam, administered by the American Payroll Association.

Pre-reqs:

ACC227



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ACC235 FORENSIC ACCOUNTING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an overview of the methodology of forensic accounting and fraud investigation which involves obtaining documentary evidence, interviewing witnesses, writing investigative reports, testifying to findings, and examining forensic documentation. Students will apply prevention, detection, and investigative strategies to determine why and how occupational fraud is committed. Upon completion of this course, students should be familiar with the basic concepts of forensic accounting and fraud prevention and detection.

Pre-reqs:

ACC237 FRAUD EXAMINATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers the nature of fraud and the responsibility of management for fraud prevention and detection. Special emphasis is given to the design of internal control systems, the identification of material weaknesses in internal controls and the additional responsibilities imposed on management under the provisions of Sarbanes-Oxley. Upon completion of this course, students should be familiar with the basic concepts of fraud prevention and detection.

Pre-reqs:

ACC133

ACC238 FINANCIAL STATEMENT ANALYSIS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course provides an analytical perspective of corporate finance in the business. The role of financial statement analysis in managerial decision making will be emphasized. The course will present an in-depth review of the Balance Sheet, Income Statement of Stockholders' Equity, and the Statement of Cash Flows. The course will also cover methods of analyzing liquidity and profitability using both financial ratios and trend analysis. Upon completion of this analyze financial data and develop strategies for effectively minimizing corporate financial risk.

Pre-reqs:

ACC133



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ACC239 ESTATE AND INCOME TAX PLANNING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course studies income tax planning, fundamentals of estate planning, estate planning considerations and constraints, and tools and techniques for estate planning. Topics include: the estate planning process, forms of property ownership, property transfers, characteristics of wills, intestacy, the fundamentals of estate and gift taxes (including determining the gross estate), the probate process, the use of trusts and estate liquidity. Upon successful completion of this course, the student should understand the fundamentals of the estate planning process.

Pre-reqs:

ACC124

ACC240 CMA EXAM PART 1 REV CRSE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers all of the topics that are tested on Part 1 of the Certified Management Accountant (CMA) Exam. Topics include planning, budgeting and forecasting; performance measurement; cost management; internal controls; and professional ethics. Upon successful completion of this course, the student should be prepared to sit for part 1 of the CMA exam.

Pre-reqs:

ACC223

Can be Taken Concurrently

ACC241 CMA EXAM PART 2 REVIEW COURSE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers all of the topics that are tested on Part 2 of the Certified Management Accountant (CMA) Exam. Topics include financial statement analysis, financial performance measures (including financial ratios), decision analysis and risk management, investment decisions, and professional ethics. Upon successful completion of this course, the student should be prepared to sit for part 2 of the CMA exam.

Pre-reqs:

ACC223

Can be Taken Concurrently



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BUS124 BUSINESS ANALYSIS WITH ALG

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to present and facilitate the mastery of the use of analysis in business applications. The applications include percentage computations; payroll; buying, markup and markdowns; simple interest; compound interest including business and consumer loans and ordinary annuities. Upon successful completion of this course, the student should be able to apply fundamental analysis to business problems

Pre-reqs:

FIN123 FUND FINANCIAL SERVICES

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course introduces the student to the discipline of personal financial planning and to the various services which support the planning process. The tools and techniques of those services are addressed from two perspectives: (1) a professional occupation and (2) individuals developing and implementing their own long-range financial plan. Specific topics include understanding the financial planning process, ethical and professional considerations in financial services, and introductions to the fundamentals of credit, insurance, investments, and retirement and estate planning. Upon successful completion of this course, the student should understand the fundamental concepts of personal financial planning.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

And BUS123

Can be Taken Concurrently

Or BUS124

IDS102

FIN220 BUSINESS FINANCE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers topics such as management and analysis of short and long-term assets and equities, their costs and their utilization in optimal corporate financial structures. Upon completion of this course, the student should be able to estimate a firm's cost of capital and discuss the risks and costs associated with the various forms of financing in a corporate setting.

Pre-reqs:

ACC133



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FIN221 INVESTMENT AND SECURITIES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to provide the student with a clear understanding of the investment environment including the basics of investing ranging from descriptive material to the theory of portfolio construction and efficient markets. It includes the appraisal of the vast options for investors, the concept of risk, information sources and provides insight into the topic of security analysis. An investment simulation in a portfolio of securities allows the student to experience "hands-on" investing as they progress throughout this course. Upon completion, the student should be able to research stocks, mutual funds and bonds, make trades and review and analyze their account activities.

Pre-reqs:

ACC132

FIN224 RISK MANAGEMENT

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course is designed to provide the students with a clear understanding and insight of insurance programs available to individuals, families and organizations as a safeguard against financial liabilities in case of accidents, prolonged illness and for losses due to natural catastrophes and disasters. Upon completion, students should be able to select the most appropriate insurance program for themselves and their families.

Pre-reqs:

ACC132

FIN227 MONEY AND BANKING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will address the economic concepts associated with money, financial institutions and monetary policy. Topics covered include: financial markets and interest rates; the structure and management of financial institutions; the structure of central banks and the Federal Reserve System; and, determinants of the money supply and the tools of monetary policy. Upon successful completion of this course, students should be able to apply and demonstrate an understanding of the above topics relative to today's economy.

Pre-reqs:

Or BUS123

BUS124

Administrative Srv Off Applion



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Administrative Srv Off Applion

AOT240 Virtual Assistant Fundamentals

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the unique skills and qualities that a virtual assistant needs to be successful. Through research and lab projects, the student will explore the roles of a virtual assistant, business planning and operating, establishing a web presence, and many specialty service areas. Emphasis will be placed on providing services remotely for a varied and diverse clientele.

Pre-reqs:

And AOT121

And AOT130

ITD122

Automotive

AUT121 AUTOMOTIVE TECH SKILLS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This is an introductory level course that will provide the student with an understanding of the correct use of precision measuring equipment, hand tools, shop equipment, cutting torches and service repair information. Emphasized throughout the course will be shop safety procedures and the correct handling of hazardous waste materials. Applied physics fundamentals will be introduced, along with repair procedures for basic automotive components such as: fasteners, bolt hole repair, drilling and tapping, heli-coil and time- serts, fastener tensile strength and torque to yield. Classroom learning will be reinforced by lab activities.

Pre-reqs:

AUT122 AUTOMOTIVE SYS AND ENG TEC

Credit Hours: 4 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This course is designed to introduce the student to the technology and terminology of the automotive industry. The various components and systems of the automobile will be surveyed, and the basic operational theory of each will be explained. Special emphasis is placed on understanding the theory, nomenclature, and construction of the automobile engine. Subjects such as energy transformation, combustion, fuel metering, basic fuel injection, and basic emission controls will be presented. Classroom learning will be reinforced by laboratory activities.

Pre-reqs:

AUT121

Can be Taken Concurrently



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Business/ Entrepreneurial

Automotive

AUT123 ENG DIAGNOSIS AND MAJ SERV

Credit Hours: 4 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This course is designed to give the student knowledge of the procedures used for automobile engine and systems diagnosis and overhaul. During the diagnosis portion of this course, students will learn how to use diagnostic test equipment. Covered also will be customer questioning techniques and information gathering procedures. During the laboratory portion of the course, the student will gain hands-on experience in engine disassembly procedures, failure diagnosis, component inspection, machining processes, measuring, fitting, and reassembly techniques.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT124 VEHICLE CHASSIS SYSTEMS

Credit Hours: 4 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This course is designed to give the student an in-depth knowledge of today's automotive steering, suspension and braking systems. Operational theory will be reinforced by laboratory periods which will allow the student to gain hands-on experience in diagnosing malfunctions, performing routine maintenance, and in making adjustments and repairs to these systems. Subjects such as vehicle four wheel alignment and base braking systems servicing will be covered. Quality work methods used when diagnosing, adjusting and repairing these safety-related systems are stressed. CTAG approved CTAUT001 and CTAUT004.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT125 AUTO ELEC'L AND ACCES SYS

Credit Hours: 4 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This course is designed to give the student an understanding of DC electrical principles including Ohm's Law, basic circuits, semiconductors, automotive wiring and common electrical components. Emphasis will be placed on the maintenance, diagnosis and repair of basic automotive electrical systems including starting and charging systems, electrical motors, switches and relays. Laboratory periods will allow the student to develop proficiency in the use of wiring diagrams, diagnostic flow charts and hands-on techniques utilizing DVOM's and other electrical test instruments. CTAG approved CTAUT002.

Pre-reqs:

AUT121

Can be Taken Concurrently



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AUT126 AUTO HVAC SYSTEMS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed to give students a sound knowledge of the theory and repair of modern automotive heating and air conditioning systems (HVAC). Before taking this course, the student should have a basic knowledge of automotive fundamentals and electrical equipment, and experience with common shop tools and techniques. Topics include: heat transfer, heating and cooling cycles, air flow management and component identification. System diagnosis, servicing, and repair techniques are demonstrated by the instructor, and lab sessions will enable the students to apply these concepts and procedures to vehicles fitted with the various manufacturers' systems. Laboratory exercises will include recovery and recycling operations required for R-12 and R134a. Special emphasis is placed on the safety aspects related to heating and air conditioning service.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT130 AUTO SAFETY AND SHOP STANDARDS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed to provide students with the knowledge and introductory experience required to safely perform vehicle service procedures in an automotive shop environment. Proper shop equipment operation, adequate shop ventilation practices, appropriate shop attire, and the use of automotive shop safety equipment are covered using industry standards. The proper use and storage of automotive chemicals are also practiced using current Material Safety Data Sheets (MSDS) chemical safety standards. At the completion of this class, students should be able to properly identify and use shop equipment, categorize and properly store shop chemicals, and work safely in an automotive shop environment.

Pre-reqs:

AUT131 AUTO DETAILING BUS PRACTICES

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers the business side of the detailing profession. With minimal investment, detailing vehicles can start out as a small part-time job and build into a full-time business. This class addresses the questions of: How do I charge for these services, who are my customers, where do I purchase the right products at the right price, what do I need to get started, how can I advertise, and how do I protect myself and my investment? Case studies, guest speakers, and site visits will reinforce the entrepreneurial aspects of running your own detailing business.

Pre-reqs:



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Automotive

AUT132 AUTO EXTERIOR DETAILING

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course has been designed to provide students with the knowledge and introductory experience required to detail the exterior of vehicles in the automotive industry. At the completion of this class, students should be able to choose and identify proper tools, cleansers, and other chemicals associated with vehicle exterior detailing. Students will learn the appropriate techniques of washing, cleaning, and waxing of all major exterior components on an automobile. Students are expected to follow all current safety standards including the application of all Material Safety Data Sheets (MSDS) chemical suggestions.

Pre-reqs:

AUT133 AUTO INTERIOR DETAILING

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This class provides students with the knowledge and introductory experience required to detail the interior of vehicles in the automotive industry. At the completion of this class, students should be able to choose and identify proper tools, cleansers, and other chemicals associated with vehicle interior detailing. Students will learn the appropriate techniques of washing interior components, cleaning, and applying proper chemical conditioners on all major interior components in an automobile. Students will also be expected to follow all current safety standards including the application of all Material Safety Data Sheets (MSDS) chemical suggestions.

Pre-reqs:

AUT132

Can be Taken Concurrently

AUT134 AUTO UNDER-HOOD/UNDER-CAR DET

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This class provides students with the knowledge and introductory experience required to detail the under-hood and under-car areas of vehicles in the automotive industry. At the completion of this class, students should be able to choose and identify proper tools, cleansers, and other chemicals associated with vehicle under-hood and under-car detailing. Students will learn the appropriate techniques of washing components, cleaning, and applying the proper chemical conditioners on all major under-hood and under-car areas of a vehicle. Students will be expected to follow all current safety standards including the application of all Material Safety Data Sheets (MSDS) chemical recommendations.

Pre-reqs:

AUT132

Can be Taken Concurrently



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AUT135 ADV AUTO DETAILING TECH

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This class provides students with the knowledge, experience, and advanced detailing techniques required to correct and improve imperfections on vehicle painted surfaces, plastic surfaces, and windshields. At the completion of this class, students should be able to use proper polishing techniques and procedures to correct painted surface concerns. Students will also be exposed to techniques and resources used to correct blemishes on vehicle plastic and glass surfaces. Students are expected to follow all current safety standards including the application of all Material Safety Data Sheets (MSDS) chemical suggestions.

Pre-reqs:

AUT132

Can be Taken Concurrently

AUT136 PRACTICAL AUTO DETAIL APPLIC

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Students will incorporate detailing techniques and critical thinking to real world scenarios while working together in teams on multiple group projects. The groups will access real-life vehicle detailing problems and discuss the proper corrective actions. Students will then execute their plans and evaluate the results. This class requires the students to apply knowledge and skills acquired in previous vehicle detailing classes to complete basic to advanced-level tasks in the detailing industry.

Pre-reqs:

AUT132

Can be Taken Concurrently

AUT137 ASE TEST PREPARATION

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course is designed to help the student develop a better understanding of the Automotive Service Excellence (ASE) certification and testing process. Students will access ASE practice tests, instructional videos, technical reference materials, and participate in discussion forums.

Instructor-led discussions will cover Automotive Service Excellence (ASE) certification areas A-1 Engine Repair, A-4 Suspension and Steering, A-5 Brakes, A-6 Electrical/Electronic Systems, and A-7 Heating and Air Conditioning. ASE is the nationally recognized industry standard for automotive technician certification.

Pre-reqs:



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AUT138 APPLIED AUTOMOTIVE PRINCIPLES

Credit Hours: 4 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This course is designed to help the student develop greater confidence and better hands-on skills by providing an instructor-guided work experience in an automotive lab environment. By referencing service information and applying a strategy-based diagnostic approach, students will be able to reinforce their existing technical skills and develop new service techniques that will help them to be better prepared to enter the workplace as an automotive technician.

Lab tasks, service information, and instructor-led discussions will cover Automotive Service Excellence (ASE) certification areas A-1 Engine Repair, A-4 Suspension and Steering, A-5 Brakes, A-6 Electrical/Electronic Systems, and A-7 Heating and Air Conditioning. ASE is the nationally recognized industry standard for automotive technician certification.

Pre-reqs:

AUT141 VEHICLE CHASSIS SYSTEMS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed for Toyota dealership technicians and students that desire to become Toyota dealership technicians. This course is designed to provide the student with a working knowledge of the theory and repair of Toyota steering, suspension, and braking systems. Before taking this course, the student should have a basic knowledge of automotive safety practices and experience with common shop tools and techniques. The instructor will demonstrate Toyota steering, suspension, and braking system inspection and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to Toyota vehicles. Special emphasis is placed on the health and safety aspects related to automotive brake service. Students enrolled in this course will complete 4 hours of out-of-class assignments and answer review questions.

Pre-reqs:

AUT142 AUTO ELECT SYS TOYOTA

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed for Toyota dealership technicians and students that desire to become Toyota dealership technicians. The course is designed to provide the student with an understanding of electrical terms, circuit concepts, and diagnostic techniques through the use of classroom instruction and hands-on training. Digital multi-meter usage is stressed. Instruction is given in wiring repair, batteries, starting, and charging systems. This course will emphasize: basic automotive circuit operation, circuit diagnosis, electrical circuit diagnosis, soldering techniques, wire and connector repair, Ohm's Law, circuit value conversions, wiring schematic interpretation, introduction to semi-conductors, and vehicle body circuits.

Pre-reqs:



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AUT143 AUTO HVAC SYS TOYOTA 750

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed for Toyota dealership technicians and students that desire to become Toyota dealership technicians. This course is designed to provide the student with a sound knowledge of the theory and repair of Toyota heating and air conditioning systems. Before taking this course, the student should have a basic knowledge of automotive and electrical equipment, and experience with common shop tools and techniques. The instructor will demonstrate Toyota HVAC system diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to Toyota vehicles. Special emphasis is placed on the safety aspects related to heating and air conditioning service. The student will complete 2 hours of out-of-class assignments and answer review questions.

Pre-reqs:

AUT171 INTRODUCTION TO HONDA PACT

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course introduces the student to the Honda PACT program and the different methods of instruction that will be used throughout the program. Each students will be issued a user name and password to gain access to the Honda Information System that contains computer- based training modules (CBT) and Honda service information. This course will familiarize the student on how to access and apply Honda service information during repair of Honda vehicles. Prior to hands- on practice, the instructor will demonstrate how to perform a Vehicle Service Inspection and a Honda New-Car Pre-Delivery Inspection.

Pre-reqs:

AUT172 HONDA ENGINE MECHANICAL

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda engine mechanical systems. Prior to hands- on practice, the instructor will demonstrate equipment usage, Honda service materials, proper engine mechanical inspection and repair procedures. Hands-on practice will enable the student to apply these concepts to Honda vehicles. Special emphasis is placed on the safety and cleanliness aspects related to automotive engine mechanical service. Information covered in this course should assist the student in reaching a level of understanding necessary to attempt ASE certification in this area.

Pre-reqs:



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AUT173 HONDA STEERING AND SUSPENSION

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers honda-specific diagnostic and repair techniques necessary to service Honda steering and suspension systems. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper steering and suspension system inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles. Special emphasis is placed on the safety aspects related to automotive steering and suspension service.

Pre-reqs:

AUT124

Can be Taken Concurrently

AUT174 HONDA BRAKING SYSTEMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda braking systems. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper braking system inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles. Special emphasis is placed on the health and safety aspects related to automotive brake service.

Pre-reqs:

AUT124

Can be Taken Concurrently

AUT175 HONDA ELECTRICAL SYSTEMS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda automotive electrical systems. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper inspection and repair procedures related to Honda automotive electrical systems. Hands-on practice will enable the students to apply these concepts to Honda vehicles. Special emphasis is placed on the safety aspects related to automotive electrical service.

Pre-reqs:

AUT125

Can be Taken Concurrently



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AUT176 HONDA HVAC SYSTEMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda automotive HVAC systems. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper HVAC system inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles. Special emphasis is placed on the environmental and safety aspects related to automotive HVAC service.

Pre-reqs:

AUT125

Can be Taken Concurrently

AUT181 INTRO TO CAT LIFT TRUCKS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The purpose of this course is to provide the student with an understanding of the skills and procedures needed to accurately diagnose and repair CAT lift trucks. This course introduces the student to the Caterpillar Lift Truck (CLT) Program and the different methods of instruction that will be used throughout the program. The course text is divided into small modular sections making it easy for the student to absorb and apply the information in a logic manner. Each student will be issued a user name and password to gain access to the CAT Learning Resources Website which contains computer-based training modules (CBT). This course will introduce students to the basics of fork lift trucks, their operation and an overview of the fork lift industry. Students will receive an introduction to CAT Lift Trucks, its history and the formation of the joint venture with MCFA. Each section ends with a student self-assessment worksheet covering the main topics in that section.

Pre-reqs:

AUT121

AUT182 CAT OPERATOR SAFETY TRAINING

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course will prepare the student for proper forklift truck operation in the workplace. On March 1, 1999, the Occupational Safety and Health Administration (OSHA) revised its previous requirements for powered industrial truck operator training and issued new requirements to improve the training of persons operating powered industrial trucks (forklift trucks). These provisions mandate a training program that bases training on the types of powered industrial trucks the operator will operate in the workplace; the hazards present in the workplace; and the operator's demonstrated ability to operate a powered industrial truck safely.

Pre-reqs:

AUT121

Can be Taken Concurrently



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AUT183 CAT SERVICE INFORMATION SYSTEM

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course introduces the student to CAT service materials and planned maintenance schedules for fleets using CAT lift trucks. The instructor will demonstrate how to locate CAT technical and parts information. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. Professional image and customer relations will be stressed and how it relates to customer satisfaction. The course concludes with a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT184 CAT HYDRAULIC SYSTEMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The purpose of this course is to provide the student with an understanding of the skills and procedures necessary to accurately diagnose and repair hydraulic systems used on lift trucks. It covers basic and advanced theories and how these theories apply to lift truck hydraulic systems. The student will be able to identify components and explain their operation. The course also includes a brief description of industry standard symbols. The course will also cover safety-related tasks before attempting to service the hydraulic system. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a description of routine maintenance procedures, troubleshooting guidelines, and a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

AUT185 CAT INTERNAL COMBUSTION ENGINE

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The purpose of this course is to allow the students to build the skills necessary to accurately diagnose and repair CAT lift truck internal combustion engines. The course covers component descriptions, fuel systems used, how 4 cycle engines work, compression ratios, air filters and PCV valves and basic troubleshooting guidelines. Fuel, ignition, and cooling system service and operation are also covered. Major emphasis is placed on in-unit service and repair of CAT (IC) engine systems. The instructor will demonstrate CAT (IC) engine diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently



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AUT186 CAT MASTS AND LIFT MECHANISMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The purpose of this course is to provide the student with an understanding of the skills and procedures necessary to accurately diagnose and repair masts used on lift trucks. It covers the purpose of the mast as it relates to powered industrial trucks. The student will be able to identify components and explain their function and operation. The course includes basic steps to visually inspect the mast and diagnose and correct problems with the mast assembly. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a description of routine maintenance procedures, troubleshooting guidelines, and a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT187 CAT ELECTRICAL SYSTEMS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

The course is designed to provide the student with an understanding of electrical terms, circuits concepts, and diagnostic techniques on CAT lift trucks. Digital multi-meter usage is stressed, with the students urged to bring their own meter. Instruction is given in wiring repair with time allotted for supervised practice. Also, batteries, starting, charging systems, ignition systems, lighting, and safety systems are covered in depth to insure accurate diagnosis and repair of those systems. The course will emphasize: circuit operation, circuit diagnosis, proper equipment usage for electrical circuit diagnosis, proper soldering techniques, wire and connector repair, Ohm's Law, circuit value conversions, and wiring schematic interpretation. The instructor will demonstrate CAT electrical system diagnosis and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT188 CAT STEERING SYSTEMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed to provide the student with a working knowledge of the theory and repair of CAT lift truck steering systems. Descriptions of drag line and hydrostatic steering systems are included with emphasis on hydrostatic. Before taking this course, the student should have basic knowledge of automotive/lift truck safety practices and experience with common shop tools and techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a description of routine maintenance procedures, troubleshooting guidelines, and a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121



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AUT189 CAT BRAKING SYSTEMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed to provide the student with a working knowledge of the theory and repair of CAT lift truck braking systems. Before taking this course, the student should have a basic knowledge of automotive/lift truck safety practices and experience with common shop tools and techniques. The instructor will demonstrate CAT braking system inspection and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a description of routine maintenance procedures, troubleshooting guidelines, and a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT191 Automotive Co-op 1

Credit Hours: 2 Contact Hours: 24 Lecture Hours: 0 Lab Hours: 24 Other Hours: 0

Cooperative work experience opportunities are available to students enrolled in Automotive Department programs. Students may contact the Automotive Department Program Coordinator for specific information regarding co-op opportunities. During this course students will gain practical work experience by performing automotive general maintenance and light repair at a sponsoring automotive repair facility.

Pre-reqs:

AUT192 Automotive Co-op 2

Credit Hours: 2 Contact Hours: 24 Lecture Hours: 0 Lab Hours: 24 Other Hours: 0

Cooperative work experience opportunities are available to students enrolled in Automotive Department programs. Students may contact the Automotive Department Programs Coordinator for specific information regarding co-op opportunities. During this course, students will gain practical work experience by working on steering, suspension, and braking systems. Students will also be expected to perform battery, starting and charging system testing and repair, as well as engine mechanical diagnosis and repairs. Under special circumstances, sponsoring automotive repair facility and the instructor can determine specific tasks to be performed during the co-op.

Pre-reqs:



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AUT193 Automotive Co-op 3

Credit Hours: 2 Contact Hours: 24 Lecture Hours: 0 Lab Hours: 24 Other Hours: 0

Cooperative work experience opportunities are available to students enrolled in Automotive Department programs. Students may contact the Automotive Department Programs Coordinator for specific information regarding co-op opportunities. During this course, students will gain practical work experience by diagnosing and repairing HVAC concerns, diagnosing electrical faults, and diagnosing and servicing manual transmission systems. Under special circumstances, sponsoring automotive repair facility and the instructor can determine specific tasks to be performed during the co-op.

Pre-reqs:

AUT194 Automotive Co-op 4

Credit Hours: 2 Contact Hours: 24 Lecture Hours: 0 Lab Hours: 24 Other Hours: 0

Cooperative work experience opportunities are available to students enrolled in Automotive Department programs. Students may contact the Automotive Department Programs Coordinator for specific information regarding co-op opportunities. During this course, students will gain practical work experience by diagnosing and repairing engine drivability concerns, advanced electrical concerns, and diagnosing and repairing automatic transmission faults. Under special circumstances, sponsoring automotive repair facility and the instructor can determine specific tasks to be performed during the co-op.

Pre-reqs:

AUT221 FUEL AND EMISSIONS MGT SYS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

The operation, diagnosis and servicing of fuel management and emission control systems is covered by lecture and demonstration. Emphasis is placed on the identification and servicing of specific manufacturers' systems using specialized test equipment, 4 and 5-gas analyzers will be used to reinforce student learning. Laboratory activities include diagnosis and repair of throttle body, port fuel injection systems, and emission control devices such as those utilized with EGR, AIR, and EVAP systems.

Pre-reqs:

AUT125



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AUT222 ENGINE SYS PER DIAGNOSIS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course presents the techniques used for correct analysis of engine performance and driveability problems. Emphasis is placed on interpretation of manufacturers' product service information and technical service bulletins. Laboratory assignments utilizing automotive diagnostic equipment will reinforce student learning. CTAG approved CTAUT003.

Pre-reqs:

AUT125

Can be Taken Concurrently

AUT223 ADV AUTO ELECTRONICS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course provides the student with the knowledge and skills required to diagnose, service, and repair body electrical systems. Students will learn how to diagnose problems and will develop skills utilizing proper diagnosis procedures. Skills developed in this course, electric and electronics systems A6, will correlate to the ASE task list. This course is an in-depth lab study of electrical/electronics, electronic information retrieval, circuit protection devices, wiring, circuit operation and diagnosis procedures of controls including, but not limited to, single and multiple contact switches, relays, transistors and computers, will promote equipment usage and personal safety for the more sensitive and complex components presented in AUT 227.

Pre-reqs:

AUT125

AUT224 AUTO DIESEL SYSTEMS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Covered by lecture and practical demonstration is the theory of operation of automotive diesel engines and auxiliary equipment such as fuel injection pumps, filtration systems, glow plugs and controllers, and diesel emission control systems. The emphasis in this course is placed on the operation and servicing of fuel delivery equipment as fitted to many domestic automotive diesels. Reference will be made to other types of fuel systems where relevant to the course material. Student learning is reinforced by laboratory exercises emphasizing the correct application of diagnostic procedures and servicing methods.

Pre-reqs:

AUT121



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AUT225 AUTO DRIVETRAIN 1

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course precedes, but is taught in conjunction with, Automotive Drivetrain II. The purpose of this course is to give the student a sound knowledge of the operation of vehicle transmission and drivetrain systems. The course is divided into three sections: (1) Clutches and Flywheels; (2) Manual Transmissions; and (3) Final Drive Assemblies. Included in the course is student laboratory experience in the (a) identification and diagnosis; (b) dismantling and repair; and (c) reassembly and adjustment of all components used in modern manual transmission systems.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT226 AUTO DRIVETRAIN 2

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course is taught in conjunction with Automotive Drivetrain I (AUT-225). The purpose of this course is to give the student a sound knowledge of the operation, diagnosis, and repair of automatic transmission and driveline systems. Included in the course is student laboratory experience in the techniques of diagnosis, disassembly and repair, reassembly and adjustment of all components used in modern automatic transmissions.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT227 COMPUTERIZED VEH CONTROL

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

The purpose of this course is to give the student instruction on the operations of an automotive computerized system. Lab activities will include problem solving skills with diagnosis in servicing of computerized fuel, ignition, and emission control management systems. Testing of these systems will be accomplished with the use of specialized diagnostic testing equipment such as DVOM's, scanners, and voltage tracing scopes. This course will use the past knowledge that the student learned in the previous electrical and engine classes.

Pre-reqs:

AUT125



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AUT228 AUTO SERVICE MANAGEMENT

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The purpose of this course is to make the student aware of the Service Manager's/Service Advisor's role and what is entailed in doing the job in a professional manner. This course provides an introduction to the theory and practice of an important mid-management position in the automotive service field. Topics will include: customer-employee relations; scheduling and dispatching; legal and ethical responsibilities; consumer affairs and financial aspects; and quality assurance programs. The course will help the student gain experience in using customer contact skills, etc. by providing real-world experience in a service department through the field service component.

Pre-reqs:

AUT230 TECHNICAL PROJECT

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This is an independent study course in which the student will create an automotive-oriented project that utilizes skills learned in previous Automotive Technology courses. The student will select an approved subject which may include functions such as research, construction and testing. Progress and performance will be evaluated throughout the semester.

Pre-reqs:

AUT231 SPECIALIZED ELEC TRAIN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This is an elective course for automotive students that covers the fundamental laws of electricity, electrical schematic reading, wire repair, digital multimeter operation, service manual usage and electrical diagnosis of GM vehicles. Students participate in hands-on activities dealing with the vehicle electrical systems including: power windows, power door locks, wipers, HVAC, chime module, charging and starting, audio and ECM/PCM. This course emphasizes GM's strategy based diagnosis of electrical systems.

Pre-reqs:

AUT125



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AUT232 FUEL INJECTION-EFI/PFI

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

EFI/PFI is an automotive elective course that discusses the various types of the throttle body and multiport fuel injection systems used with GM passenger cars and light trucks. Detailed descriptions of components and the operation of the fuel management systems are given by lecture and practical demonstration. The interrelationship of fuel system/emission controls devices operation and vehicle drivability problems is also covered. Special emphasis is placed on the correct application of diagnostic flowchart information. Student learning is reinforced by participation in laboratory exercises utilizing Scantools and other specialized diagnostic equipment.

Pre-reqs:

AUT223

AUT233 AUTO DIAGNOSTIC APPLIC

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Auto Diagnostic Applications is an advanced-level course that serves as a capstone for the Automotive Technology program. It is a final assessment of student knowledge and technical skills. Students integrate previously learned principles and concepts with practical field experiences and use specialized diagnostic equipment such as computer scan tools and lab oscilloscopes to evaluate the performance of vehicle systems and components. Under the guidance of an instructor and through an independent study component, students' diagnostic and hands-on skills are further developed and measured while performing component replacement and adjustment procedures to vehicles in a service department setting. The practical application of quality assurance techniques to automotive service work is strongly emphasized. This course also supports and reinforces knowledge required to pass the ASE Automotive Technician Certification examinations.

Pre-reqs:

AUT223

Can be Taken Concurrently

AUT234 ALT FUELS & ADV AUTO TECH

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed to provide the student with an understanding of alternative automotive fuels and the advanced technologies associated with fuel conversion and hybrid propulsion systems. Technologies addressed in the course will include diesel, compressed natural gas (CNG), liquid petroleum gas (LPG), methanol, ethanol, E-85 (bi-fuel vehicles), hydrogen, solar, electric propulsion, hybrid propulsion, and fuel cells. The description, application, and characteristics of alternative fuels will be covered. The course presents the history, legislation, regulations, safety, and the environmental impact associated with alternative fuels and those anticipated in the near future. Vehicle design and modification as it relates to alternative fuel systems will be studied as well as the storage and distribution of alternative fuels.

Pre-reqs:

AUT223



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AUT241 BODY CONTROL SYSTEMS

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course reviews the advanced concepts and applications of multiple body controllers with multiple inputs and outputs. Communication languages, multiplexing, and complex networks in automotive applications are also presented.

Pre-reqs:

AUT251 AUTOMOTIVE DRIVETRAINS I

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed for Toyota dealership technicians and students that desire to become Toyota dealership technicians. The purpose of this course is to give the student a sound knowledge of the operation of Toyota manual transmission and driveline systems. The course is divided into four sections:(1) Clutches and Flywheels;(2) Manual Transmissions(3) Final Drive Assemblies; and(4) Transfer Cases. The student will study the theory of operation of components in these four sections. Included in the course is student laboratory experience in the(a) identification and diagnosis;(b) dismantling and repair; and (c) reassembly and adjustment of all components used in modern manual transmission systems. The instructor will demonstrate Toyota manual transmission diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to Toyota vehicles. The student will be required to complete 2hrs of out-of-class assignments and answer review questions.

Pre-reqs:

AUT252 AUTOMOTIVE DRIVETRAINS II

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed for Toyota dealership technicians and students that desire to become Toyota dealership technicians. The purpose of this course is to familiarize the student in the operation of Toyota automatic transmission systems. The course text is divided into small modular sections making it easy for the student to absorb and apply the information in a logical manner. The instructor will demonstrate Toyota automatic transmission diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to Toyota vehicles. The student will be required to complete 2 hours of out-of-class assignments and answer review questions.

Pre-reqs:



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Automotive

AUT253 COMPUTERIZED VEHICLE CONTROLS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed for Toyota dealership technicians and students that desire to become Toyota dealership technicians. The purpose of this course is to provide the student with an understanding of the skills and procedures needed to accurately diagnose and repair Toyota computerized engine control systems. The course text is divided into small modular sections making it easy for the student to absorb and apply the information in a logical manner. Each section ends with a student self-assessment worksheet covering the main topics in that section. The self-assessment worksheets contain theory-based questions and hands-on practice. A skill pretest is imbedded into the first worksheet. This is done to prepare the student for the course and demonstrate to the instructor the skill level of the student. The student will be required to complete 4 hours of out-of-class assignments and answer review questions. There will be two performance tests and a written final test.

Pre-reqs:

AUT254 AUTO AFTERMKT VEH INT MOD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This class provides students with the preparatory experience required to perform vehicle interior modifications. Students will be exposed to current automotive aftermarket industry standards. Attention to detail is reinforced throughout student projects. This course concentrates on the modification of vehicle interior electrical systems, lighting systems, instrument cluster, HVAC, window controls, seating, sound systems, and visual appeal through the application of automotive aftermarket accessories and practices.

Pre-reqs:

AUT125

AUT255 AUTO AFTERMKT VEH EXTERIOR MOD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course provides students with the preparatory experience required to perform vehicle exterior modifications. Students will be exposed to current automotive aftermarket industry standards. Attention to detail is reinforced throughout student projects. This course concentrates on the modification of vehicle body aerodynamics, exterior lighting, and visual appeal through the application of automotive aftermarket accessories and practices.

Pre-reqs:

AUT125



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Automotive

AUT256 AUTO AFTERMKT VEH POWERTRN MOD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course provides students with the preparatory experience required to perform vehicle powertrain modifications. Students will be exposed to current automotive aftermarket industry standards. Attention to detail is reinforced throughout student projects. This course concentrates on the modification of engine volumetric efficiency, final drive ratios, transmission shifting controls, fuel management systems, engine and transmission cooling devices, exhaust systems, and under-hood visual appeal through the application of automotive aftermarket accessories and practices.

Pre-reqs:

AUT123

AUT257 AUTO AFTERMKT VEH CHASSIS MOD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course provides students with the preparatory experience required to perform vehicle chassis modifications. Students will be exposed to current automotive aftermarket industry standards. Attention to detail is reinforced throughout student projects. This course concentrates on the modification of vehicle suspension geometry, ride height, alignment angles, tire and wheel combinations, springs, and suspension dampening components through the application of automotive aftermarket accessories and practices.

Pre-reqs:

AUT124

AUT271 HONDA FUEL AND EMISSION SYSTEM

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers Honda-specific diagnosis, theory and repair techniques necessary to service Honda fuel and emission systems. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper fuel and emission system inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles. Special emphasis is placed on the environmental concerns and engine performance aspects that are related to automotive emission system service.

Pre-reqs:

AUT221

Can be Taken Concurrently



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Automotive

AUT273 HONDA ADVANCED DIAGNOSTIC APPS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service air bag systems (SRS) and anti-lock braking systems (ABS) on Honda vehicles. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper system inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles. Special emphasis is placed on the safety aspects related to air bag systems (SRS) and anti-lock braking systems (ABS).

Pre-reqs:

AUT223

Can be Taken Concurrently

AUT275 HONDA MANUAL TRANSMISSIONS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda manual transmissions. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper manual transmission inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles.

Pre-reqs:

AUT225

Can be Taken Concurrently

AUT276 HONDA AUTOMATIC TRANSMISSIONS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda automatic transmissions. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper automatic transmission inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles.

Pre-reqs:

AUT226

Can be Taken Concurrently



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Automotive

AUT277 HONDA COMPUTERIZED ENGINE

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course covers Honda-specific diagnostic and repair techniques necessary to service Honda computerized engine control systems. Prior to hands-on practice, the instructor will demonstrate equipment usage, Honda service materials, proper computerized engine control systems inspection and repair procedures. Hands-on practice will enable the students to apply these concepts to Honda vehicles.

Pre-reqs:

AUT223

Can be Taken Concurrently

AUT281 CAT DIFFERENTIALS AND FRONT AXLES

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The purpose of this course is to provide the student with an understanding of the skills and procedures necessary to accurately diagnose and repair drive axles and differentials used on lift trucks. The course covers component identification, precision measurements of components, proper setup and adjustment, and functions of these components. The instructor will demonstrate CAT differential and axle diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a description of routine maintenance procedures, troubleshooting guidelines, and a self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently

AUT282 CAT TRANSMISSIONS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The purpose of this course is to teach students about the purpose and operation of transmissions used in lift trucks, specifically powershift and hydrostatic. The course covers component identification, power flow, precision measurements of components, and functions of these components. The instructor will demonstrate CAT transmission diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a description of routine maintenance procedures, troubleshooting guidelines, and self-assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently



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Automotive

AUT283 CAT FUEL SYSTEMS (LP/GASOLINE)

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed to provide the student with an understanding of the skills and procedures necessary to accurately diagnose and repair gasoline and LP fuel systems used on CAT lift trucks. Included in this course are K21-K-25, GM4.3L, and TB45 fuel systems. On-unit diagnosis of mechanical and electronic fuel control systems will include the use of traditional fuel diagnostic equipment and CAT-fuel system specialty tools. The importance of safety and proper handling of LP and gasoline fuel system components will be stressed in every segment of this class. The instructor will demonstrate CAT LP and gasoline system diagnosis, servicing, and repair techniques. Hands-on practice will enable the students to apply these concepts and procedures to CAT lift trucks. The course concludes with a self- assessment worksheet to reinforce learning objectives.

Pre-reqs:

AUT121

Can be Taken Concurrently

ETD222 ENGINEERING CO-OP

Credit Hours: 2 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Co-op opportunities are available to students enrolled in Engineering Technologies. Students may contact their faculty advisors or Career Services for more information.

Pre-reqs:

ETD224 ENGINEERING CO-OP

Credit Hours: 4 Contact Hours: 40 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Co-op opportunities are available to students enrolled in Engineering Technologies. Students may contact their faculty advisors or Career Services for more information.

Pre-reqs:



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Automotive

TOY101 Intro to Toyota T-TEN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course is the introductory course for the Toyota T-TEN program. Throughout the class students will receive a general understanding of the automotive industry and more specifically what the roll of an automotive service technician is at a Toyota dealership. Shop safety, proper tool and equipment usage, precision measurement, fasteners, fastener repair, and proper shop attire will all be covered in this course. Students will be enrolled into the Toyota T-TEN online learning system as apprentice technicians and will be required to utilize the Toyota service information system as well as the Toyota online training portal. This course is a prerequisite for all other Toyota T-TEN classes.

Pre-reqs:

TOY102 Toyota Electrical Systems I

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course is designed to give the student an understanding of DC electrical principles including Ohm's Law, basic circuits, semiconductors, automotive wiring and common electrical components. Emphasis will be placed on the maintenance, diagnosis and repair of basic automotive electrical systems including battery, starting, and charging systems, electrical motors, switches and relays. Students will also be introduced to computerized vehicle control systems. Laboratory periods will allow the student to develop proficiency in the use of wiring diagrams, diagnostic flow charts and hands-on techniques utilizing DVOM's and other electrical test instruments. The students will learn the Toyota six step diagnostic procedure and utilize it during laboratory activities to determine various faults on vehicles.

Pre-reqs:

TOY101

Can be Taken Concurrently

TOY103 Toyota Steer, Susp, & Handl

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course will cover diagnosis, service and repair of the steering, suspension, and handling systems on Toyota vehicles. Upon completion of the class students will have removed and replaced suspension components like: struts, springs, control arms, and steering knuckles. Students will be required to properly diagnose alignment concerns and align vehicles with several different suspension systems. The proper procedures for inspecting, repairing, or changing tire and wheel assemblies will be taught in this course. Hydraulic and electronic power steering systems, computer controlled suspension and handling systems will also be covered in this course. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon completion of this course students will be prepared to take ASE test A-4 (Steering and Suspension).

Pre-reqs:

TOY102

Can be Taken Concurrently



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Automotive

TOY104 Toyota Enginge Diagnosis/Rep

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course will cover the diagnosis, service, and repair of Toyota internal combustion engines. Upon completion of the class students will be able to state the four strokes of an internal combustion engine and explain the importance of each stroke. Students will develop the knowledge and skills to diagnose mechanical engine faults. They will be able to remove and reinstall an engine from the vehicle; and will gain experience repairing and rebuilding engines. Students will also learn how engine cooling systems and lubrication systems operate and how to diagnosis system faults. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon completion of this course students will be prepared to take ASE test A-1 (Engine Repair).

Pre-reqs:

TOY101

TOY105 Toyota Engine Controls I

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course will introduce students to the Toyota engine control system which includes all necessary computer inputs, information processing, and outputs which control engine operation. Students will learn the relationship between air, fuel, spark and compression and how the engine control system manages these. Students will be able to identify engine control inputs and outputs and describe their operation. Upon completion of this course student should have the knowledge and skills necessary to diagnose and repair concerns related to the computerized vehicle control system. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon completion of this class students will be prepared to take ASE test A-8 (Engine Performance).

Pre-reqs:

TOY104

TOY106 Toyota ManTrans & Drivetrains

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This class will teach students the skills necessary to service and repair Toyota manual transmission and four wheel drive systems. Students will perform inspections, service, and repairs on clutch systems. They will also overhaul a manual transmission, manual transaxle, front differential, rear differential, and a transfer case. Students will also learn to diagnose and repair Toyota electronic four wheel drive control systems. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon completion of the course students will be prepared to take the ASE test A-3 (Manual Drivetrain and Axle).

Pre-reqs:

TOY102



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TOY201 Toyota Electrical Systems II

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

In this course, students will learn to diagnose and repair advanced electrical faults including shorts, opens, and high resistance faults in Toyota multiplex computer networks. In order to diagnose these concerns students will learn how to utilize the advanced features of the Toyota scan tool. Students will also learn to use advanced diagnostic equipment and procedures. Upon completion of this course students will be able to diagnose and repair the most advanced electrical problems. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Students completing this course are prepared to take ASE test A-6 (Electrical and Electronic Systems).

Pre-reqs:

TOY102

TOY202 Toyota Automotive Braking Sys

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course will cover diagnosis, service and repair of the braking systems on Toyota vehicles. Upon completion of the class, students will have experience performing braking system service including: brake pad replacement, rotor resurface and replacement, caliper service and replacement, shoe replacement, drum resurface and/or replacement, parking brake cable replacement and adjustment, hose replacement, master cylinder replacement, and hydraulic control valve service and replacement. Students will also learn the knowledge and skills necessary to diagnose, service, and repair advanced anti-lock brake system faults. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon successful completion of this course students will be prepared to take ASE test A-5 (Brakes).

Pre-reqs:

TOY201

TOY203 Toyota HVAC Systems

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course will cover diagnosis, service and repair of the Toyota heating, ventilation, and air conditioning (HVAC) systems. They will understand how to connect and interpret air conditioning gauge set readings. HVAC system performance tests will be performed to determine if systems are functioning as designed. All major components of the HVAC system will be located, identified, defined, removed and reinstalled. Advanced climate control systems will also be covered in this class. Students will learn to diagnose climate control faults using schematics, specifications, and procedures retrieved from the Toyota Information System. Students will also use the Toyota scan tools, digital volt ohm meters, and other required diagnostic equipment during this class. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon successful completion of this course students will be prepared to take ASE test A-7 (Heating, Ventilation, and Air Conditioning).

Pre-reqs:

TOY201



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TOY204 Toyota Engine Controls II

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course is designed to increase the student's understanding and diagnostic skills related to advanced Toyota engine control systems. Major areas to be covered are the identification, operation, function, and diagnosis of the following: Electronic Control Module (ECM); fuel injection systems; engine control system sensors and actuators; ignition systems; electronic throttle control systems, evaporative emission systems, variable valve timing, direct fuel injection systems, and EGR systems. Emphasis will be on solving advanced drivability concerns using all available resources: Toyota Information Systems, DVOM, oscilloscope, Toyota scan tool, and any related special service tools. In this course students will learn students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon successful completion of this course students will be prepared to take ASE tests A-8 (Engine Performance) and L-1 (Advanced Engine Performance).

Pre-reqs:

TOY105

TOY205 Toyota Automatic Transmission

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This course covers the diagnosis, service and repair of Toyota automatic transmissions. Participants will learn how to analyze automatic transmission power flow, learn how to select the proper automatic transmission fluid, and how to check fluid levels for transmissions with and without fluid dipsticks. Students will be required to use the proper Toyota Information System reference materials, test procedures, and specifications to diagnose transmission failures. Students will learn to evaluate proper transmission operation and to perform diagnostic tests to determine necessary repair requirements. Complete transmission overhauls will be performed during this class as well. Students will be required to validate their understanding of the topics in this class through hands on competency based lab activities. Upon completion of this course students will be prepared to take ASE test A-2 (Automatic Transmissions).

Pre-reqs:

TOY204

Business Mgt/Entrep

BUS121 BUSINESS ADMINISTRATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A survey course designed to develop a comprehension of business theories and principles. Students will examine the following: American business development, management and organization, human resources, marketing, information for business strategy, decision making, finance and investment. Upon completion, students should be able to demonstrate an understanding of the above topic areas and have a foundation for studying other business subjects.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

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Business Mgt/Entrep

BUS122 BASIC ECONOMICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A survey course designed to introduce students to basic economic concepts and principles of modern micro- and macro-economics. Major topic areas will include supply and demand, price system, market economies, monetary and fiscal policy and global economic issues. Upon completion, students should be able to demonstrate an understanding of the above topic areas. TMSBS Approved effective Autumn 2008.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

BUS221 MICROECONOMICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An in-depth study of microeconomic concepts and principles such as supply and demand, price elasticity, production costs, different market structures, income distribution, marginal analysis, and other issues relating to global economics. Upon completion of this course, students should be able to demonstrate an understanding of these topics and be able to apply them to business. TAG OSS004 approved Spring 2012. TMSBS approved Spring 2012.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

BUS222 MACROECONOMICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An in-depth study of macro-economic concepts and principles such as market supply and demand, unemployment and inflation, monetary and fiscal policy, national income accounting and Classical and Keynesian models. Upon completion, students should be able to apply and demonstrate an understanding of the above topics relative to today's economy. TAG approved course- OSS005 effective Fall 2005. TMSBS Approved effective Autumn 2008.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102



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CUL119 Culinary ServSafe

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This class prepares the student to earn the ServSafe Food Protection Manager Certification sponsored by the National Restaurant Association Educational Foundation. The training will cover the concepts of: food safety and handling, good personal hygiene, time and temperature control, prevention of cross contamination, cleaning and sanitizing, safe food preparation, receiving and storing of food, methods of food handling, HACCP, food safety regulations and food borne illness. Upon completion of the course, the student will be able to take the Food Protection Manager Certification Exam.

Pre-reqs:

CUL120 Sanitation and Safety

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course prepares the student to use a Food Protection Certification. The training will cover the concepts of: food safety and handling, good personal hygiene, time and temperature control, prevention of cross contamination, cleaning and sanitizing, safe food preparation, receiving and storing of food, methods of food handling, HACCP, food safety regulations and food borne illness with emphasis on application in a professional kitchen.

Pre-reqs:

CUL122 FOOD FUNDAMENTALS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The Food Fundamentals course is an introduction to the development and application of fundamental cooking and techniques. The course introduces the student to entry-level fundamentals such as recipe interpretation, integrated culinary math, culinary terminology, knife skills, large and small equipment identification and use, careers in culinary arts and food service, industry professionalism and entry-level cooking procedures, practices, and techniques.

Pre-reqs:

CUL119

Can be Taken Concurrently

And CUL120

Can be Taken Concurrently



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CUL123 FUNDAMENTAL COOKING-PREP I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course addresses the development and application of cooking practices, procedures and techniques. The students will understand the techniques of preparation and prepare soups, stocks, sauces, and dairy items. They will use dry heat methods of cooking, moist heat cooking methods, prepare pantry items and perform garde manger (cold food preparation) duties.

Pre-reqs:

CUL122

CUL124 Meat & Fish-Prep II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will provide training and skill development in preparing meat and fish dishes used in a culinary arts environment. Students will use a variety of preparation and cooking methods to demonstrate ability to work with meat and fish products.

Pre-reqs:

CUL123

CUL125 Culinary Nutrition/Menu Plan

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers key concepts of menu planning including: design, writing, costing of menu items, marketing and merchandising of a menu. Also included is basic culinary nutrition information as well as research, surveys and sales analysis that are key to menu planning.

Pre-reqs:

CUL119

And CUL120



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CUL126 FOOD PURCHASING-INVENTORY CONT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will provide Culinary Arts students with coverage of the essential concepts of purchasing, storeroom operations and fiscal responsibilities in a culinary operation. The students will be able to create market and distribution systems, design storeroom operation and inventory control procedures, determine cost controls and research product information.

Pre-reqs:

CUL221 Bakery & Pastry-Prep III

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to offer baking and pastry preparation information and techniques. Students will focus on an introduction to baking, use of baking equipment and tools, principles of cake baking and decoration, preparation of pastries and desserts as well as career opportunities in baking.

Pre-reqs:

CUL124

CUL222 Advanced Cookery-Prep IV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides students the opportunity to develop advanced cooking skills and use advanced techniques in food preparation. Students will study cooking methods and food preparation of other cultures to develop an understanding in depth of flavors and techniques used in more complex recipes.

Pre-reqs:

CUL221



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CUL223 Catering & Buffet/Event Mgt

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will provide information for students to be able to plan, coordinate and execute catering jobs, set up and manage buffets and schedule and plan events as well as manage the events. Students will learn to coordinate the “front of the house” and “back of the house” activities to conduct a well-planned event which is catered on or off premise.

Pre-reqs:

Or CUL119

And CUL120

CUL121

And CUL122

CUL224 Beverage Management & Service

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will guide students to create and maintain bar and beverage service in a responsible and profitable manner for a food service operation. Course content will include: responsible alcohol service, needed equipment, mixology, employee management, set up, purchasing, receiving, storage and inventory control as well as categories of products such as wine, beer, and specialty drinks.

Pre-reqs:

CUL119

And CUL120

CUL230 Culinary Practicum

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 1 Lab Hours: 8 Other Hours: 0

This is a capstone experience designed for the student to put their learning into practice. The student will work with a mentor in a food service operation to gain practical experience and work in a wide range of culinary areas. The course will be a blend of work experience, job performance and a series of designated face to face meetings.

Pre-reqs:



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ENT120 ENTREPRENEURSHIP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to introduce students to the entrepreneurial process from conception to birth of a new venture. Students will examine elements in the entrepreneurial process--personal, sociological, and environmental--that give birth to a new enterprise. Critical factors for starting a new enterprise such as alternative career prospects, family, friends, role models, the state of the economy and the availability of resources will be explored. Students will be introduced to practical tools they can use to further their careers in business, both in entrepreneurship and in more traditional company environments. This course simulates the experiences that entrepreneurs undergo in conceiving, launching, and operating new businesses. The courses enables students to evaluate an entrepreneurial career for themselves. In doing so, it provides want- to-be entrepreneurs with a framework for selecting, funding, and starting their own new ventures.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

Or ENG102

IDS102

ENT124 MANAGNG ENTREPRENEURIAL GROWTH

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed for students who want to manage growing companies in an increasingly professional manner while still maintaining the entrepreneurial spirit that brought the company to its current growth position and for students who want to manage larger companies to emphasize innovation and the management of opportunities rather than to concentrate on the efficient management of ongoing operations. Upon successful completion of this course, students should be able to measure economic performance and obtain information for management decision-making, management control systems for innovative companies, short-and long-run planning in owner-managed businesses, and entrepreneurship in managing growing companies.

Pre-reqs:

ENT120

ENT223 ENTREPRENEURSHIP PRACTICUM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 14 Other Hours: 0

This is the capstone experience where the student puts their business plan into practice. The student will work with mentors to start to apply their entrepreneurial knowledge to real life situations. This course is based on the concept of balanced mentorship, which benefits both the student and the entrepreneur mentor. Students will be assigned to a start up firm in our Center for Entrepreneurial Studies to apply classroom knowledge to an actual work situation.

Pre-reqs:



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Business Mgt/Entrep

ENT225 GLOBAL ENTREPRENEURSHIP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines how entrepreneurs create and manage emerging ventures in other countries and create and manage start-up emerging ventures which are global in at least one important aspect. The case analyses and classroom discussions draw on and integrate multidisciplinary concepts, skills, and insights. - marketing, operations, finance, control, decision-making, leadership, ethics, governance, negotiations - all in the service of starting and managing entrepreneurial ventures. Upon successful completion of this course, students should be able to identify and assess business models for international start-ups, venture valuation, sources of financing, deal structuring, cross-cultural issues in entrepreneurship, creating strategic alliances, managing/ leading a small multinational organization, international acquisitions, managing entrepreneurial ventures in situations of financial distress and under changing contexts, and managing global expansions of ventures. **Pre-reqs:**

ENT120

MGT121 PRINCIPLES OF MANAGEMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an in-depth, balanced overview of management through coverage of basic management functions: planning, organizing, staffing, directing and controlling. Presents the current insights of open-systems theory, contingency theory, organization theory, organizational behavior and contemporary management science. Upon completion, students should be able to demonstrate an understanding of the above topic areas.

Pre-reqs:

BUS121

Or ENT120

MGT122 Introduction to Sports Mgt

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will introduce students to the sports management major and the foundations of sports management as a field of study from high school to the international arena. This course will examine areas such as the history and philosophy of sports, business principles, and various private and public sector career opportunities in the sports and recreation industry.

Pre-reqs:

BUS121



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MGT141 INTRO TO CASINO MANAGEMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an overview of gaming operations, including the economics of the casino and casino management. As part of the broader study of gaming, students will study the history of gaming, organization and operation of a casino, new technological advancements of gaming in the industry, the mathematics of casino games, casino management, staffing, security, controls, taxation, and entertainment.

Pre-reqs:

BUS121

MGT221 SUPERVISION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is organized around the employee in order to emphasize the importance of working with others. Some specific areas covered are: the role of the supervisor, basic concepts of office functions, management of information, motivation, sources of power and authority, work simplification and group dynamics. Upon completion, students should be able to apply current management theory to situations that occur at the supervisory level.

Pre-reqs:

MGT121

MGT222 SMALL BUSINESS MGT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on launching and operating a small business. Developing a business plan is an integral part of the coursework. Upon completion of the course, students will have an understanding of the multitude of issues involved in owning a small business and how to develop and utilize a business plan in a small business.

Pre-reqs:

ACC133

And MGT121



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MGT223 BUSINESS DECISION MAKING

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course utilizes a multitude of managerial business decision making skills that culminates your business management classroom experience. It involves an actual competitive team-based decision making computer simulation. The course includes in-depth analysis and research into production, inventory, finance, research and development, pricing, product placement, and industry competitiveness decisions. The course requires teamwork and an understanding of all the areas of business decision making to successfully manage a corporation. Upon completion of this course a student should have a greater understanding of the impact of teamwork, functional department interactiveness, and competitive market analysis on everyday business decisions.

Pre-reqs:

ACC133

And MGT121

MGT224 HUMAN RESOURCE MGT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Introduction to the effective management of human resources in today's organizations. Emphasis is on the policies and programs necessary to attract, retain and motivate employees. Subjects covered include the legal framework of human resource management, staffing, human resource development, motivation and leadership, compensation, appraisal systems, safety and labor, and management relations. Upon completion, students should be able to demonstrate an understanding of the management of the human resource.

Pre-reqs:

MGT121

MGT227 OPERATIONS MANAGEMENT

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course examines the concepts for designing, planning and improving manufacturing and service organizations. It covers many of the computational techniques applied to problems of efficiently converting inputs into outputs. The areas covered include: project management, forecasting, capacity planning, work measurement, quality and statistical quality control, supply chain, plant location, layout scheduling, materials management and maintenance. Upon completion, students should be able to demonstrate an understanding of operations management principles.

Pre-reqs:

MGT121

And MTH108



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MGT232 INTERNATIONAL BUSINESS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on the economic, social and cultural considerations of doing business overseas. The globalization of markets and the growth of overseas business ventures is explored. The need to develop varied techniques for managing people from other cultural backgrounds, the means of minimizing risks in financial transactions, and development of systems for coordinating and controlling operations will be stressed. Techniques to overcome international business barriers are covered. Upon completion, students should be able to demonstrate an understanding of the economic, social and cultural considerations of doing business worldwide.

Pre-reqs:

BUS121

MGT235 Facility & Event Mgt for Sport

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides students with an understanding of sports facility and event management. Sports facility management consists of identifying goals of the event and coordinating people in the organizations involved to achieve those goals. Sports facility management consists of planning and designing a sports facility, staffing of management, facility marketing, developing revenue streams, facility scheduling, and general facility maintenance in order to host the sporting events.

Pre-reqs:

And ACC132

MGT121

And MKT121

MGT236 Sports & Ethics

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to assist students in examining and developing philosophies, values and moral reasoning skills to make ethical decisions in the sports management field. This course examines topics including violence, doping, racial and gender equity, coaching, commercialization, enhancing stimulants, eligibility, violence, sportsmanship and code of ethics in sports. Students will examine current and historical events in sports, rules, laws and governing organizations.

Pre-reqs:



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MGT237 Safety & Health Mgmt

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 0

This course provides a comprehensive study of occupational safety and health in a contemporary workplace. Content will emphasize risk management, legal issues surrounding work health and safety, and workplace hazard reduction. Students will apply updated OSHA standards to topics such as workplace violence, natural disasters, and terrorism.

Pre-reqs:

MGT224

MGT238 Strategic Staffing

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 0

This course develops a thorough understanding of strategic staffing. Students will acquire the knowledge base necessary to identify, attract, select, and retain quality staff. The course will provide education on legal and regulatory issues surrounding staffing while reinforcing competitive business practices in the current global economy.

Pre-reqs:

MGT224

MGT239 Compensation & Benefits

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 0

This course is a comprehensive study of the theoretical and legal perspectives governing the practical application of compensation and benefits. Emphasis for the course will be on job evaluations, wage surveys, incentives, pay equity, insurances, and worker's compensation.

Pre-reqs:

MGT224



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MGT241 CASINO SECURITY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will introduce students to various forms of cheating, theft, fraud, or loss in the gaming industry. Students will examine proven techniques for detecting threats to casino security and ways to protect the casino, assets, guests, and employees. Students will investigate best practice techniques, strategies, tactics, and metrics, required to effectively monitor the gaming operations; for example, surveillance audits, threat analysis, card counting, game protection techniques, players' club theft and fraud, surveillance standard operating procedures, and nightclub security.

Pre-reqs:

MGT141

MGT243 GAMING METHODS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course explores the gaming methods, policy, and procedures used by different gaming departments. Students will cover topics in casino methods, casino slot operations, table games performance and analysis, and casino mathematics. Students distinguish between the different games such as bingo, keno, roulette, blackjack, poker, baccarat, craps, and policy and procedures associated with security and surveillance.

Pre-reqs:

MGT141

MKT121 PRINCIPLES OF MARKETING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is an introduction to the important role that marketing plays in the successful operation of various enterprises that operate in both the domestic and international arenas. Emphasis is on developing marketing strategies needed to compete effectively in today's rapidly changing competitive environment. Customer buying behavior, market segmentation, quality customer service, the elements of product, distribution, pricing and promotion strategies are examined. Upon completion, students should be able to demonstrate an understanding of the above topic areas. OBU006

Pre-reqs:

BUS221



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MKT131 CASINO MARKETING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides students with an understanding of casino marketing. This course will identify and discuss marketing theories, practices, and concepts in the casino industry. Students will learn how to achieve a competitive advantage for a casino through the application of marketing.

Pre-reqs:

BUS121

MKT221 SALES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The selling process is introduced in detail. Securing and opening the sales interview, delivering the sales presentation, answering objections and closing the sale are all incorporated during the semester. The student will be required to give a sales presentation in class. Upon completion, students should understand the selling process and be able to make an effective sales presentation.

Pre-reqs:

MKT121

MKT222 ADVERTISING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Provides an overview of the field of advertising, including its place in marketing, media considerations, design principles, budgeting and planning. Included is a project consisting of the design of a total campaign. Upon completion, students should be able to demonstrate an understanding of the field of advertising. OCM002 TAG approved Spring 2012.

Pre-reqs:

MKT121



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MKT225 Sports Sales

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will introduce students to an analysis of effective skills necessary to the sales process found in the sports world. Students will develop effective communication skills, selling techniques, and examine the role of technology in the sports sales industry. Fairness, ethics and honesty in terms of sales will be stressed.

Pre-reqs:

MKT121

MKT226 SUPPLY CHAIN MANAGEMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An introduction to the processes and activities associated with cost-effective industrial procurement and the internal management of all materials and equipment needed by a manufacturer to produce products or provide services. Upon completion, students should be able to demonstrate an understanding of the processes and activities associated with cost effective purchasing.

Pre-reqs:

MKT121

MKT227 CONSUMER BEHAVIOR

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides in-depth knowledge of consumer buying behavior. It includes the study of the various cultural, social, personal and psychological factors that influence consumer market behavior and strategy. Upon completion, students should be able to demonstrate an understanding of the factors that influence consumer behavior.

Pre-reqs:

MKT121



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MKT229 MARKET PLANNING

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This is a capstone course that focuses on the significant procedures, processes and analysis that leads the student through the comprehensive market planning process. Methodology includes market research, company and industry analysis, and the development of the processes required in the completion and presentation of the market plan. Upon completion, students should be able to demonstrate an understanding of the creation, analysis, and preparation in the completion of the market planning process.

Pre-reqs:

MKT121

MKT233 MARKET RESEARCH

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides knowledge and application to the Market Research method and practices to be successful in today's business arena. It includes the study of the role of marketing research, research design, data collection skills, communication research results and the management of marketing research. Upon completion, students should be able to demonstrate an understanding and practical application of field of marketing research.

Pre-reqs:

MKT121

And MTH108

MKT236 E-MARKETING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The new processes and new media that have been ushered in by the electronic age are studied in the context of more traditional marketing practices. Marketing to consumers as well as other organizations and finding sources of information virtually are considered. This course examines the theory, application, and strategies of electronic marketing. It will examine the use of web pages in marketing ideas, goods, and services in "e-commerce". This course will also cover the skills and knowledge to develop and implement e-commerce marketing activities for businesses conducting transactions in an online environment.

Pre-reqs:

MKT121

Business Studies



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BTD201 BUS INDEPENDENT STUDY

Credit Hours: 1 Contact Hours: 10 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Business Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisory and dean for Business Technologies will determine course content, meeting schedules and credit hours.

Pre-reqs:

BTD202 BUS INDEPENDENT STUDY

Credit Hours: 2 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Business Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisory and dean for Business Technologies will determine course content, meeting schedules and credit hours.

Pre-reqs:

BTD203 BUS INDEPENDENT STUDY

Credit Hours: 3 Contact Hours: 30 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Business Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisory and dean for Business Technologies will determine course content, meeting schedules and credit hours.

Pre-reqs:



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BTD204 BUS INDEPENDENT STUDY

Credit Hours: 4 Contact Hours: 40 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Business Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Business Technologies will determine course content, meeting schedules and credit hours.

Pre-reqs:

BTD222 BUSINESS CO-OP

Credit Hours: 2 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Co-op opportunities are available to students enrolled in Business Technologies. Students may contact their faculty advisors or Career Services for more information.

Pre-reqs:

BTD223 BUSINESS CO-OP

Credit Hours: 3 Contact Hours: 30 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Co-op opportunities are available to students enrolled in Business Technologies. Students may contact their faculty advisors or Career Services for more information.

Pre-reqs:



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BTD224 BUSINESS CO-OP

Credit Hours: 4 Contact Hours: 40 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Co-op opportunities are available to students enrolled in Business Technologies. Students may contact their faculty advisors or Career Services for more information.

Pre-reqs:

BTD225 SPECIAL TOPICS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Special topics in Business Technology Division. Repeat registration permitted.

Pre-reqs:

BTD226 SPECIAL TOPICS

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Special topics in Business Technology Division. Repeat registration permitted.

Pre-reqs:



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BTD227 SPECIAL TOPICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Special topics in Business Technology Division. Repeat registration permitted.

Pre-reqs:

BTD228 SPECIAL TOPICS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Special topics in Business Technology Division. Repeat registration permitted.

Pre-reqs:

Educ/ Liberal Arts/ Math

Arts, Humanities & Rdg

COM121 EFFECTIVE SPEAKING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to help students develop effective speaking skills so that they are better prepared to speak before groups in business or industry. Principles of content selection, organization, audience analysis, and projection are studied. TAG approved course- OCM004 effective Summer 2007. TMCOM Approved effective Autumn 2008.

Pre-reqs:



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Arts, Humanities & Rdg

COM122 INTERPERSONAL COMMUNICATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the theory and application of interpersonal communication concepts and principles, emphasizing application toward becoming a more competent interpersonal communicator. Areas of study include perception, culture, listening, nonverbal communication, relationships, and conflict. This course is Ohio TAG approved. OCM002 effective Summer 2008. Ohio Transfer Module Approved effective Autumn 2008.

Pre-reqs:

COM123 SMALL GROUP COMMUNICATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the role of the individual in small social and working groups. The emphasis is on communication verbal and non-verbal to become a group member capable of participation, problem-solving, and leadership. TAG approved course- OCM003 effective Summer 2007.

Pre-reqs:

ENG124

COM125 INTRO TO COMMUNICATION THEORY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will provide students with a survey of the basic elements of communication in a variety of contexts including interpersonal, group, organizational, intercultural, and mass media. Analysis and application of communication theories is emphasized as well as the study of current communication theory research. This course is Ohio TAG approved. OCM001 effective Summer 2008.

Pre-reqs:

- Or Test & Score: ACT Reading - 19
- Or Test & Score: ACT Composite - 22
- Or Test & Score: Compass Reading - 080
- IDS102
- Or IDS102
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Arts, Humanities & Rdg

COM126 INTRO TO MASS COMM

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces students to the role of media in contemporary, political, and cultural contexts as well as the global stage. Topics of study include the evolution of media technology, relationships between mass communication and other forms of communication, and the philosophical and ethical issues that arise in mass communication. TAG approved Spring 2012 OCM006.

Pre-reqs:

COM223 INTERVIEWING I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to introduce students to the art of interviewing. Students will study the principles and practices of interviewing as well as the application of effective interviewing methods in real-life and role-playing assignments. Topics of exploration include question strategies, approaches, structures and types of interviews from both aspects of interviewer and interviewee.

Pre-reqs:

COM122

COM225 SEX, GENDER, AND CULTURE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces students to the study of communication and its relation to sex, gender, and culture. Students will explore the complexities of gender communication in interpersonal relationships, the educational environment, the media, and the workplace. Theoretical approaches to gender development, cultural construction and reconstruction of gender, and gender communication in practice will be examined.

Pre-reqs:



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COM226 ORGANIZATIONAL COMMUNICATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on communication within organizations, including analysis of organizational theories, interpersonal concepts, group dynamics, cultural influences, and technological variables with the organizational setting.

Pre-reqs:

COM227 INTERCULTURAL COMMUNICATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is an introduction to the study of culture and co-cultures and how they are influenced by and effect communication. This course provides an overview of study in communication between and within cultures and co-cultures. In an increasingly global society, being able to communicate effectively with people from different cultures and diverse backgrounds is imperative. Toward that end, this course emphasizes a practical application of intercultural communication concepts and principles, encouraging students to become more competent communicators in a culturally diverse world.

Pre-reqs:

COM122

COM228 NONVERBAL COMMUNICATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces students to important nonverbal concepts, theories, and typologies. Students will learn to interpret and manage nonverbal communication behaviors as they relate to interpersonal relationships in both personal and professional contexts. The course also provides students with an opportunity to analyze and interpret nonverbal elements of mediated communication messages.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102



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COM229 PERSUASION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides a foundation in the application of theories, principles, and strategies of social influence in a variety of contexts. Empirical investigations of persuasion, social influence, and compliance-gaining will be studied, in addition to strategies and techniques of persuasion and persuasion resistance relating to a wide variety of real-life communication contexts.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

COM230 ARGUMENTATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to introduce students to rhetorical theory particularly as it relates to the theory and practice of argumentation. Students will have the opportunity to practice argumentation in academic debating and persuasive speaking. Students will also study the theoretical foundation of argumentation and its application in various contexts.

Pre-reqs:

Or Test & Score: ACT Reading - 19

Or Test & Score: ACT Composite - 22

Or Test & Score: Compass Reading - 080

COM121

And IDS102

HIS121 US HISTORY I -TO 1877

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the major trends and ideas in American history from the first settlements in North America to the end of the Civil War and Reconstruction. The economic, social, political and religious beliefs and issues affecting the growth and development of the American nation will be examined, along with the issues that produced conflict in the formative years of our history. Topics include: early settlements and immigration, the growth of the colonies, the American Revolution, westward expansion, sectional conflict and the Civil War. TAG approved OHS010 effective Spring 2012. TMAH approved Spring 2012.

Pre-reqs:



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HIS122 US HISTORY II FROM 1877

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the major trends and ideas in American history from the end of Reconstruction to the present. The economic, social, political and religious beliefs and issues affecting the growth and development of the American nation will be examined. Topics discussed will include Industrialization, Immigration, Suffrage, the Great Depression, World War II, the Cold War, Vietnam, the youth movement of the 1960s, Watergate, the Reagan Era, and the United States in the 21st Century.

Pre-reqs:

HIS221 World Civ to 17th Century

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will look at world history from early human societies through the mid-17th century.

Pre-reqs:

IDS101 TECHNICAL COMPREHENSION

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course helps students develop and apply reading, vocabulary, study and critical thinking skills to enhance their success with college-level work. This course requires a computerized reading software program.

Pre-reqs:



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IDS102 CRITICAL ANALYSIS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course teaches vocabulary skills, critical comprehension, and analysis of college-level reading material. The course requires a computerized reading software program.

Pre-reqs:

Or Test & Score: ACT Reading - 14

Or Test & Score: Compass Reading - 066

Or CAL101

IDS101

IDS115 COLLEGE SUCCESS SKILLS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Designed to aid students in gaining success skills needed for constructive and efficient learning both in college and other life settings. Topics include time management, study and test-taking skills, library use, and a variety of techniques for academic, professional and personal use.

Pre-reqs:

PHL122 ETHICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Uses historical and contemporary theories to examine the role and application of ethics to a variety of personal and professional modern-day situations. TAG approved course- OAH046 effective until Spring 2008. TMAH Approved effective Autumn 2008.

Pre-reqs:

Education



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ASL121 INTR TO DEAF CULTURE COMMUNITY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to provide students with an overview of the Deaf Culture and Community; history of American Sign Language; deafness and its causes, community services available to the deaf community, American with Disabilities Act laws. Five observation hours are required.

Pre-reqs:

ASL122 AMERICAN SIGN LANGUAGE I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course is the first in a series of three American Sign Language courses and is based on the integration of learning outcomes across interpersonal, receptive and expressive modes of communication. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with products, practices, and perspectives of American Deaf culture. Students learn grammar, vocabulary, structures, and spatial orientation to enable them to meet functional performance goals at this level and to build a foundation for continued language learning. During this course, students generally perform in the novice range, although a few abilities may emerge in the intermediate range. Ten Community Learning Experience (CLE) hours are required.

Pre-reqs:

ASL121

Can be Taken Concurrently

ASL123 INTRODUCTION TO INTERPRETING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces the student to the philosophy of interpreting, history and models of interpreting; ethical issues; physical, social and psychological factors. Five observation hours are required.

Pre-reqs:



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ASL124 AMERICAN SIGN LANGUAGE II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course is the second in the series of three American Sign Language courses and is based on the integration of learning outcomes across interpersonal, receptive, and expressive modes of communication. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with products, practices, and perspectives of American Deaf culture. Students learn grammar, vocabulary, structures, and spatial orientation to enable them to meet functional performance goals at this level and to build a foundation for continued language learning. During this course, students perform better and stronger in the novice range while some abilities emerge in the intermediate range. Ten Community Learning Experience (CLE) hours are required.

Pre-reqs:

ASL122

ASL221 AMERICAN SIGN LANGUAGE III

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course is the third in a series of three language courses and is based on the integration of learning outcomes across interpersonal, receptive, and expressive modes of communication. Students accomplish real-world communicative tasks in culturally appropriate ways as they gain familiarity with products, practices, and perspectives of American Deaf culture. Students learn grammar, vocabulary, structures, and spatial orientation to enable them to meet functional performance goals at this level and to build a foundation for continued language learning. During this course, students can consistently perform in the novice range while more abilities emerge and develop in the intermediate range. Ten Community Learning Experience (CLE) hours are required.

Pre-reqs:

ASL124

ASL222 AMERICAN SIGN LANG PRAC/SEM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

ASL Practicum and Seminar is a 210 hour supervised educational experience. This course will allow students to observe and practice signing in actual situations. Students will be able to apply the skills and knowledge learned in the classroom. Students will be assigned to specific community sites and will be supervised by a staff person from the community agency. This is a capstone course.

Pre-reqs:

ASL123

And ASL221

Can be Taken Concurrently



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Education

EDU122 CURRICULUM DESIGN AND INS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Studies theory and practice of instructional design and delivery for children birth to eight. Goal-setting, curriculum design, lesson planning and instructional methods based on NAEYC guidelines. Emphasis is placed on developmentally-appropriate, integrated and thematic instruction. Skill development is fostered in observing and recording behavior and evaluation/assessment of children's needs, levels and progress. Includes use of a wide range of educational media. Fifteen observation hours required.

Pre-reqs:

EDU131

EDU123 HEALTH AND NUTRITION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of health and nutritional needs, issues, practices and state licensing as it relates to early childhood programs. Stress management, environmental design and working with children with special needs are addressed. Five observation hours required.

Pre-reqs:

EDU131

EDU124 INFANT TODDLER CURRICULUM

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Studies theory and practice of infant toddler curriculum, including current research. Goal setting, curriculum design, lesson planning and instructional methods based on NAEYC guidelines. Five observation hours required.

Pre-reqs:

EDU131



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Education

EDU125 CHLDNR W PHYSICAL EXCEPTIONS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the range of service needs for students with mild to moderate physical impairments using an interdisciplinary team approach. Problem solving approaches and decision making models for use of adaptive materials, equipment, and intervention techniques are examined for assessment, planning, and service delivery. Five observation hours required.

Pre-reqs:

EDU131

EDU126 EDUCATIONAL TECHNOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Encompasses effectively identifying, locating, evaluating, designing, preparing and efficiently using educational technology as instructional resources in the classroom as related to principles of learning and teaching. Students will develop increased classroom communication abilities through lectures, discussions, modeling, laboratory experiences and completion of a comprehensive project. TAG approved OED002 effective Spring 2011.

Pre-reqs:

EDU127 INFANT AND TODDLER GROUP CARE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The needs of infants and toddlers are unique. This course introduces principles of development and the fundamental needs of children from birth to three who are in group care settings. This class will explore ways of creating environments for infants and toddlers group care that fosters optimum social, emotional, physical, and cognitive development. Five observation hours required.

Pre-reqs:

EDU131



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EDU128 RESPVE INFANT AND TODDLER ENV

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Infants and toddlers need to have an environment that is responsive to their needs and allows for safe exploration. Designs for safe yet nurturing indoor and outdoor environments will be explored. This course will also define various kinds of routines and experiences that will help to support children's development and learning by using appropriate materials and teaching strategies for each age group. Five observations required.

Pre-reqs:

EDU131

EDU129 RELSHP DEV FOR INFANTS/TOD

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Research indicates that infants within the first three months can detect and imitate others' behaviors and expressions. This course will focus on the child's emerging ability to become secure, express feelings, develop self-awareness and self-regulation that will help to establish secure and trusting attachments with their caregivers. This class will focus on the social-emotional development and how to develop strategies that enhance that area of development.

Pre-reqs:

EDU127

Can be Taken Concurrently

EDU130 INTRO TO THE TEACHING PROFESSN

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This survey course is an introduction to the teaching profession. Students engage in a variety of experiences that broadly explore the purposes of schools in society and the knowledge, dispositions, and performances required to be an effective teacher today. Ten observation hours required. TAG approved course OED001, effective Summer 2013. CTAG approved course CTED001, effective Summer 2013.

Pre-reqs:

Or Test & Score: ACT English - 18

Or Test & Score: Compass English - 070

Or ENG011

Or ENG011

ENG105



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Education

EDU221 LANGUAGE ARTS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Examines strategies and techniques for supporting and encouraging young children's emerging literacy development, including pre-writing/writing, pre-reading, reading and language development. Includes orientation to children's literature, application of the whole language approach and utilization of children's interest. Ten observation hours required.

Pre-reqs:

EDU122

Or EDU124

EDU223 COMMUNITY & FAM BASED PR

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of community and family-based early childhood programs such as Head Start. Even Start and public special needs preschools. Adherence to mandates/guidelines, population served, socio-economic trends and factors, and how these programs differ from others are studied. Family relations and parenting skills emphasizing family involvement and empowering parents/guardians are studied and related to use in community/family programs. Five volunteer/observation hours required. This is the TAG ODE 006 course approved Spring 2012.

Pre-reqs:

EDU131

EDU224 EARLY CHILDHOOD PROG ADM

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Examines key aspects of starting and operating various types of early childhood programs. Policies/procedures, legalities, supervision, finances, planning and organizing, and personnel management are emphasized.

Pre-reqs:

Or ECE121

Or EDU121

EDU131



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EDU225 THE EXCEPTIONAL CHILD

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A study of theories and techniques used in assessment and instruction of learning-disabled, developmentally-challenged and gifted children. Developmental traits of children with special needs are examined, and instruction is studied in light of the inclusion and least restrictive environment models. Five observation hours required. TAG approved OED004.

Pre-reqs:

EDU130

Or EDU131

EDU227 EARLY CHLD ED TECH PRACTICUM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

A 210-hour, supervised experience working in the early childhood education/caregiving setting. Open only to Early Childhood Education Technology majors. Weekly seminar participation required.

Pre-reqs:

EDU128

And EDU132

Or EDU221

And EDU225

Can be Taken Concurrently

EDU228 PHONICS FOR YOUNG CHILDREN

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Explores the theory and role of phonics and phonemics awareness as well as current research regarding phonics instruction. Five observation hours required.

Pre-reqs:

Or ECE221

EDU221



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EDU229 EDUCATIONAL PSYCHOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Major theories of human development and learning, motivation instructional strategies, assessment, and similarities and differences in learners are examined. The role of factors in the students' environment that influence students' learning and development are considered. Five observation hours required. TAG OED003 approved Spring 2012.

Pre-reqs:

EDU130

Or EDU131

EDU230 CHILDN W SOCIOEMOTINAL EXCEPT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Definitions, causes, and characteristics of students identified with mild to moderate emotional/behavioral disabilities are studied. Social, educational, and emotional implications of learning and development are examined. Methods of assessment and interventions based on developmentally and individually appropriate practice are presented. Five observation hours required.

Pre-reqs:

EDU131

EDU231 EARLY CHLDHD EDUC ADM PRAC SEM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

A 210-hour, supervised, ECE administrator work experience. Open only to students enrolled in the Administrator One-Year Certificate for Early Childhood Professionals. This capstone course will allow the student to apply the skills and knowledge learned in business and education coursework. Weekly seminar participation is required.

Pre-reqs:

MGT121

Can be Taken Concurrently

English



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English

CHN100 Elementary Chinese I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course will focus on basic reading, speaking, writing, and listening comprehension skills for Mandarin Chinese.

Pre-reqs:

CHN200 Elementary Chinese II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course covers intermediate reading, speaking, writing, and listening, and application of those skills for Mandarin Chinese.

Pre-reqs:

CHN100

ENG010 INTRODUCTION TO ACAD WRITING

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

This course is a writing-intensive course which emphasizes the composition process through individualized and group instruction in a workshop setting. It engages students in the writing habits, strategies, and skills needed to become confident, successful college writers.

Pre-reqs:



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English

ENG011 ACADEMIC WRITING

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course provides supplementary instruction for students who are co-enrolled in College Composition (ENG124). This course is designed to enhance student success, providing intensive individualized instruction and practice in major components of drafting, such as process writing, audience awareness, and critical thinking.

Pre-reqs:

- Or Test & Score: ACT English - 16
- Or Test & Score: Compass English - 050
- ENG010
- Or ENG103

ENG124 COLLEGE COMPOSITION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course emphasizes writing based on reading response with review of essay development, grammar, and punctuation. Emphasis is on the process of drafting, revising, and editing to achieve clarity. A research project requires APA or MLA documentation. TMEC Approved effective Autumn 2008.

Pre-reqs:

- Test & Score: ACT English - 18
- Or Test & Score: Compass English - 070
- Or Test & Score: HS English - 3
- Or ENG011 Can be Taken Concurrently
- Or ENG101
- Or ENG105

ENG125 TECHNICAL EDITING AND LAYOUT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will introduce students to the editing process and teach students the basic of design layout. Students will practice both hardcopy and electronic editing and proofreading, as well as study and discuss a variety of editorial approaches.

Pre-reqs:

- ENG124



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English

ENG126 TECHNICAL GRAMMAR AND STYLE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an intense review of modern English grammar, style, and punctuation, and examines how these subjects pertain to current technical writing.

Pre-reqs:

ENG124

ENG221 TECHNICAL REPORT WRITING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course stresses clarity, logic and appropriate organization in informal and formal technical reports. An oral presentation/proposal may be required. TMEC Approved effective Autumn 2008. Ohio Transfer Module Approved Spring 2012 TME002.

Pre-reqs:

ENG124

ENG222 HEALTH INFORMATION WRITING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Health Information Management Technology students develop skills in various kinds of writing to meet the needs of the global workplace, such as letters, memos, emails, instructions, reports, abstracts, minutes, agendas, summaries and proposals, in addition to developing a resume with a letter of application. Students will learn research techniques based on medical databases related to health information as well as other electronic sources in this technology.

Pre-reqs:

ENG124

And HIT223

Can be Taken Concurrently



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English

ENG227 WRITING FOR MEDIA

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers writing for the following media: web, broadcast, and scriptwriting. Students examine basic issues of design and are introduced to stylistic and content requirements involved with creating media-specific text.

Pre-reqs:

ENG124

ENG228 WRITING FOR THE WEB

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Writing for the Web is designed to introduce students to the unique writing style, issues, and audience associated with writing for the web and digital media. Students will come to understand how users read on the web, the dual nature of language and aesthetics in web writing, flow and construction of information on the web, language appropriateness and usage, and the relationship between audience, message, and language.

Pre-reqs:

ENG124

ENG229 GRANT WRITING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Students will study the general and varied requirements of grant writing in a diversity of public and private areas. Hands-on practice will result in a completed grant or simulated grant of some complexity by the end of the semester.

Pre-reqs:

ENG124



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English

ENG230 BUSINESS COMMUNICATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides a realistic sampling of varied forms of communication. During the course of the semester, students will write memos, letters, description, and instructions; conduct research; practice conducting simulated business meetings featuring reports and graphic aids; and develop skills in interviewing and resume creation. The importance of working with others is stressed throughout the class. TMEC Approved effective Autumn 2008. OTM approved for TME002 effective Fall 2011. TAG approved Spring 2012 OBU005.

Pre-reqs:

ENG124

ENG231 COLLEGE COMPOSITION II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will build on the skills and knowledge obtained in College Composition including research and inquiry. Students will develop an understanding of rhetoric, argument, and language as they explore and write about complex topics in formal papers. TMEC Approved effective Spring 2010.

Pre-reqs:

ENG124

ENG232 SCRIPTWRITING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will focus on the creation of scripts for corporate marketing, training and educational videos. Narrative structure and dramatic storytelling will be employed in the creation of the scripts.

Pre-reqs:

And ENG124

ENG227



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English

ENG233 BRITISH LITERATURE:MED TO 1785

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers British literature from the Middle Ages to the early modern period. Students will read, discuss, and write about works by British authors in their historical and cultural contexts. Emphasis will be placed on the critical reading of the works and techniques used to analyze them. Course is TAG approved OAH055 effective Spring 2010. TMAH Approved effective Spring 2010.

Pre-reqs:

ENG124

ENG234 BRITISH LIT:1785 TO PRESENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers British literature from the Romantic to contemporary periods. Students will read, discuss, and write about works by British authors in their historical and cultural contexts. Emphasis will be placed on critical reading of the works and techniques used to analyze them. TMAH Approved effective Spring 2010. TAG approved OAH056 effective Summer 2010.

Pre-reqs:

ENG124

ENG235 INTRO TO SHAKESPEARE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is a study of representative plays and poetry of William Shakespeare. Students will read, discuss, and write about the works in their historical and cultural contexts. Emphasis will be placed on the critical reading of the works and techniques used to analyze them.

Pre-reqs:

ENG124



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ENG236 AMERICAN LIT:COLONIAL to 1865

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course covers American Literature from the time of Native Americans to the Civil War. Students will read, discuss, and write about works by American authors in their historical and cultural contexts. Emphasis will be placed on critical reading of the works and techniques used to analyze them. TAG OAH053 approved Spring 2012. TMAH approved Spring 2012.

Pre-reqs:

ENG124

ENG237 AMERICAN LIT:1865 TO PRESENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course surveys American Literature from the mid- to late-nineteenth century to the present. Students will read, discuss, analyze, and write about works by American authors in their historical and cultural contexts. Emphasis will be placed on critical reading of the works and techniques used to analyze them. THAH approved Spring 2012. TAG approved Summer 2012 OAH054.

Pre-reqs:

ENG124

ENG238 INTRO TO CREATIVE WRITING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Students will study and practice creative writing by critically analyzing creative writing strategies and experiencing a writing workshop to create their own texts.

Pre-reqs:

ENG124



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English

ENG239 FILM APPRECIATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Film Appreciation will introduce students to the way films are put together and how they transmit story and ideas to an audience. Students will learn about narrative form, film style, genre, etc., as well as film criticism and theory.

Pre-reqs:

ENG124

ENG240 WOMEN'S LITERATURE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course explores representative works by women of diverse eras, cultures, historical, social and literary perspectives. Emphasis will be placed on critical reading of the works and techniques used to analyze them, especially in terms of race, ethnicity, class, sexual orientation, and cultural context. Through this analysis, students will gain knowledge and understanding of women's role in the literary tradition and how their roles and views of themselves change and are reflected in their writing.

Pre-reqs:

ENG124

ENG241 MAJOR MODERN WRITERS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course explores the writing of major American and British authors of the twentieth century and after. Students will read, discuss, and write about works by these authors in their historical and cultural contexts. Emphasis will be placed on critical reading of the works; techniques used to analyze them; and their social, historical, and literary significance in relation to the twentieth century and after.

Pre-reqs:

ENG124



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ENG250 TECHNCL COMMUNICATNS INTERSHIP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Students will work with the student newspaper advisors and staff during a specified period of time with a member of the English Department at Stark State College serving in an advisory capacity. This is a non-paid internship. Successful completion of the internship will require confirmation by the representative of the student organization and the student's advisor that obligations and objectives have been met. Can only be completed in the student's final semester at Stark State College.

Pre-reqs:

SPN100 ELEMENTARY SPANISH I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course covers basic reading, speaking, writing, and listening skills and application of those skills.

Pre-reqs:

SPN200 ELEMENTARY SPANISH II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course covers intermediate reading, speaking, writing, and listening skills and application of those skills.

Pre-reqs:

SPN100

General Studies



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General Studies

SSC101 STUDENT SUCCESS SEMINAR

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed to aid students in gaining the skills necessary for academic success at Stark State College (SSC). Topics include learning styles, critical thinking, time management, study and test-taking techniques, communication skills, and a variety of personal development strategies. Students will learn how to access and use SSC resources such as mystarkstate, the College's Learning Management System (LMS), Digital Library, Writing Center, Career Development, advising, tutoring, and other College support services. This course also fosters connections between students, their respective academic divisions, and their classmates. Upon completion of this course, students should be able to incorporate into their degrees or certificate programs the tools and skills necessary to be academically and professionally successful.

Pre-reqs:

Mathematics

MTH091 Prealgebra I

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers mathematical topics that are essential for students in any discipline. Topics to be covered are whole numbers; fractions; the Real Number System; an introduction to variables; and solving equations.

Pre-reqs:

MTH092 Prealgebra II

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers mathematical topics that are essential for students in any discipline. Topics to be covered are positive and negative fractions; positive and negative decimals; ratios, rates and percent; solving equations and word problems.

Pre-reqs:

Or Test & Score: M091 Transfer Prof/Placement - 3

MTH091

Can be Taken Concurrently

Or MTH100

Or MTH101



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Mathematics

MTH093 Intermediate Algebra I

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers mathematical topics that are essential for students in any discipline, but especially for those that will eventually pursue a Bachelor's degree. Topics to be covered are linear graphing; solving inequalities and absolute value equations; an introduction to functions; systems of equations; exponents; and polynomials.

Pre-reqs:

Or Test & Score: ACT Math - 19

Or Test & Score: Compass Algebra - 039

Or Test & Score: M092 Transfer Prof/Placement - 3

MTH092

Can be Taken Concurrently

Or MTH101

Or MTH123

MTH094 Intermediate Algebra II

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers mathematical topics that are essential for students in any discipline, but especially for those that will eventually pursue a Bachelor's degree. Topics to be covered are factoring; rational expressions; roots and radicals; and quadratics.

Pre-reqs:

Or Test & Score: M093 Transfer Prof/Placement - 2

MTH093

Can be Taken Concurrently

MTH105 Math for Allied Health

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to provide health science students with the mathematical skills and concepts required to be successful in allied health fields. Topics covered in this course will be: allied health applications, metric conversions, apothecary and household systems, systems of measurements, use of formulas, dimensional analysis, percent, decimals, fractions, ratios and proportions, direct and inverse variation, solutions, dosage calculations, allied health graphs, scientific notation, and statistical concepts.

Pre-reqs:

Or Test & Score: ACT Math - 19

Or Test & Score: Compass Algebra - 039

Or Test & Score: M091 Transfer Prof/Placement - 3



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Mathematics

MTH105 Math for Allied Health

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to provide health science students with the mathematical skills and concepts required to be successful in allied health fields. Topics covered in this course will be: allied health applications, metric conversions, apothecary and household systems, systems of measurements, use of formulas, dimensional analysis, percent, decimals, fractions, ratios and proportions, direct and inverse variation, solutions, dosage calculations, allied health graphs, scientific notation, and statistical concepts.

Pre-reqs:

And Test & Score: M092 Transfer Prof/Placement - 3

MTH091

And MTH092

Or MTH100

MTH106 Math for Technology

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed for students in computer science and information technology. Areas of focus will include: sets and Venn diagrams, numbering systems, logic, graphs, greedy algorithms, counting principles, combinatorics, discrete probability, sequences, and series.

Pre-reqs:

Or Test & Score: ACT Math - 19

Or Test & Score: Compass Algebra - 039

And Test & Score: M091 Transfer Prof/Placement - 3

Or Test & Score: M091 Transfer Prof/Placement - 3

MTH091

And MTH092

Or MTH100

MTH107 Industrial Math

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the topics of elementary mathematics needed for applications in the vocational and technical curriculum. The operation and use of the scientific calculator as a problem solving tool will be emphasized. Topics include: basic concepts, fractions, the metric system, measurements, polynomials, basic right angle trigonometry, ratios and proportions, geometry, oblique triangles, the law of sines and law of cosines.

Pre-reqs:



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Mathematics

MTH107 Industrial Math

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the topics of elementary mathematics needed for applications in the vocational and technical curriculum. The operation and use of the scientific calculator as a problem solving tool will be emphasized. Topics include: basic concepts, fractions, the metric system, measurements, polynomials, basic right angle trigonometry, ratios and proportions, geometry, oblique triangles, the law of sines and law of cosines.

Pre-reqs:

Or Test & Score: ACT Math - 19

Or Test & Score: Compass Algebra - 039

Or Test & Score: M091 Transfer Prof/Placement - 3

And Test & Score: M092 Transfer Prof/Placement - 3

MTH091

And MTH092

Or MTH100

MTH108 Explorations in Modern Mathema

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to introduce the student to the beauty and utility of mathematics in everyday life. The student will be able to reason critically, think creatively, assess evidence from conclusions, and use skills in abstract and quantitative thinking. Topics covered in this course will be: Thinking critically, numbers in the real world (percentages and index numbers), managing your money, statistical reasoning, describe statistical data using measures of center and spread, statistical inference, the normal distribution, solve basic probability applications, mathematics and business.

Pre-reqs:

Or Test & Score: ACT Math - 19

Or Test & Score: Compass Algebra - 039

Or Test & Score: M091 Transfer Prof/Placement - 3

And Test & Score: M092 Transfer Prof/Placement - 3

MTH091

And MTH092

Or MTH100



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Mathematics

MTH124 Statistics

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces the student to statistical thinking and the use of statistical methods for gathering and analyzing data. The focus is on graphical, tabular, and numerical methods for summarizing distributions. Fundamental concepts of probability are introduced as well as the concepts of discrete (binomial) and continuous (normal) probability distributions and their importance to inferential statistics. Point estimates and interval estimates of population means and standard deviations are obtained stressing the importance of random sampling. Hypothesis testing of one and two sample means and proportions is used for statistical inference along with the F-Test, Chi-Square, and ANOVA. Least squares regression analysis for linear correlation is computed manually or with a statistical package such as SPSS, SAS, Minitab or Excel.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 052

Or Test & Score: M093 Transfer Prof/Placement - 2

MTH093

Or MTH123

MTH124A Statistics, Module A

Credit Hours: 1.5 Contact Hours: 1.5 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course introduces the student to statistical thinking and the use of statistical methods for gathering and analyzing data. The focus is on graphical, tabular, and numerical methods for summarizing distributions. Fundamental concepts of probability are introduced as well as the concepts of discrete (binomial) and continuous (normal) probability distributions and their importance to inferential statistics. Point estimates and interval estimates of population means and standard deviations are obtained stressing the importance of random sampling. Hypothesis testing of one and two sample means and proportions is used for statistical inference along with the F-Test, Chi-Square, and ANOVA. Least squares regression analysis for linear correlation is computed manually or with a statistical package such as SPSS, SAS, Minitab or Excel.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 052

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

MTH093

And MTH094

Or MTH123



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MTH124B Statistics, Module B

Credit Hours: 1.5 Contact Hours: 1.5 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course introduces the student to statistical thinking and the use of statistical methods for gathering and analyzing data. The focus is on graphical, tabular, and numerical methods for summarizing distributions. Fundamental concepts of probability are introduced as well as the concepts of discrete (binomial) and continuous (normal) probability distributions and their importance to inferential statistics. Point estimates and interval estimates of population means and standard deviations are obtained stressing the importance of random sampling. Hypothesis testing of one and two sample means and proportions is used for statistical inference along with the F-Test, Chi-Square, and ANOVA. Least squares regression analysis for linear correlation is computed manually or with a statistical package such as SPSS, SAS, Minitab or Excel.

Pre-reqs:

MTH124A

MTH125 COLLEGE ALGEBRA

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

In this course students will study linear, quadratic and absolute value equations and inequalities by applying analytical, graphical, and numerical methods of solution. Elementary functions and non-functions will be examined with reference to extremes, roots (zeros) and end-behavior of their respective graphs. Theory of equations including the Remainder and Factor Theorems, The Rational Root Theorem, and Descartes' Rule of Signs will be used for non-graphical analysis of polynomial functions of degree n . The student will also study exponential and logarithmic functions and the conic sections including their graphs and applications. Systems of equations will be solved by traditional algebraic methods as well as by the application of matrix algebra including determinants. These methods will be extended to include the partial fraction decomposition of rational expressions. TMM001 approved Spring 2012.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 052

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

MTH093

And MTH094

Or MTH123



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Mathematics

MTH125A COLLEGE ALGEBRA A

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Study of linear, quadratic and absolute value equations and inequalities, graphs of elementary functions and non-functions. TMM001 approved Spring 2012.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 052

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

MTH093

And MTH094

Or MTH123

MTH125B COLLEGE ALGEBRA B

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Graphing of polynomial and rational functions, zeros of polynomial functions including the Fundamental Theorem of Algebra, exponential and logarithmic functions including graphs and applications, conic sections, systems of equations using matrices and determinants, matrix algebra, partial fraction decomposition. Ohio Transfer Module Approved effective Summer 2010.

Pre-reqs:

MTH125A

MTH130 TRIGONOMETRY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Study of angles and degree measure; radian measure; arc length and area; angular and linear velocity; trigonometric functions; right angle trigonometry; trigonometric identities and reference angles; unit circle and graphing; general sine wave; graph of tangent function; inverse trigonometric functions; basic sine, cosine and tangent equations; multiple angle equations; vectors and their applications; oblique triangles and their applications; polar coordinates and complex numbers.

Pre-reqs:

MTH125



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Mathematics

MTH135 PRECALCULUS

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

Study of linear and quadratic equations, their applications; solving rational and radical equations; complex numbers; linear, polynomial and rational inequalities; equations and inequalities involving absolute value; graphs of equations; relations and functions; transformation of functions; combining functions and composite functions; inverse functions; exponential and logarithmic functions and equations; angles and their measure; right angle trigonometry, trigonometric functions of any angle, graphs of trigonometric ratios; inverse trigonometric functions; trigonometric identities and equations, sum, difference, double angle, half angle; applications of trigonometric functions; systems of equations; matrices and determinants; the conic sections; sequences and series.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 052

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

MTH093

And MTH094

Or MTH123

MTH135A PRECALCULUS A

Credit Hours: 2.5 Contact Hours: 2.5 Lecture Hours: 2.5 Lab Hours: 0 Other Hours: 0

Study of linear and quadratic equations, and their applications; solving rational and radical and radical equations; complex numbers; linear, polynomial and rational inequalities; equations and inequalities involving absolute value; graphs of equations; relations and functions; transformation of functions; combining functions and composite functions; inverse functions; exponential and logarithmic functions and equations; the conic sections; sequences and series.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 052

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

MTH093

And MTH094

Or MTH123



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Mathematics

MTH223 ANALYTIC GEOMETRY-CAL I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

In this course students will develop mathematical thinking and communication skills and learn to apply precise logical thinking to the study of analytic geometry, limits, continuity, derivatives, tangent and normal lines, derivatives of trigonometric functions, related rates, Newton's method, Rolle's theorem, mean value theorem, extrema of functions, antiderivatives, definite integrals, indefinite integrals, areas and volumes. Key ideas and concepts will be presented from a variety of perspectives with a broad range of examples and applications. A graphing utility will be used to reinforce and extend concepts and for numerical methods such as the Trapezoidal Rule and Simpson's Rule for integration. Students will progress from a procedural/computational understanding of mathematics to a broader understanding encompassing logical reasoning, generalization, abstraction, and formal proof.

Pre-reqs:

MTH135

MTH223A ANALYTIC GEOMETRY-CAL I A

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

In this course students will develop mathematical thinking and communication skills and learn to apply precise logical thinking to the study of analytic geometry, limits, continuity, derivatives, tangent and normal lines, derivatives of trigonometric functions and related rates. A graphing utility will be used to reinforce and extend concepts and for numerical methods such as the value of a derivative at a given point. Students will progress from a procedural/computational understanding of mathematics to a broader understanding encompassing logical reasoning, generalization, abstraction, and formal proof.

Pre-reqs:

Or Test & Score: ACT Math - 27

Or Test & Score: Compass Algebra - 084

Or MTH125

And MTH130

MTH135

MTH223B ANALYTIC GEOMETRY AND CAL I B

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

In this course students will develop mathematical thinking and communication skills and learn to apply precise logical thinking to the study of functions, Newton's method, Rolle's theorem, mean value theorem, extrem of faunctions, antiderivatives, definite integrals, indefinite integrals, areas and volumes. Key ideas and concepts will be presented from a variety of perspectives with a broad range of examples and applications. A graphing utility will be used to reinforce and extend concepts and for numerical methods such as the Trapezoidal Rule and Simpson's Rule for integration. Students will progress from a procedural/computational understanding of mathematics to a broader understanding encompassing logical reasoning, generalization, abstraction, and formal proof.

Pre-reqs:

MTH223A



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MTH224 ANALYTICAL GEO & CALC II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This is the second course in the study of calculus. It includes the derivatives of inverse and exponential functions and a sustained study of integration techniques including integration by parts, trigonometric integrals, and partial fraction decomposition and applications of these. The importance of Riemann sums is demonstrated with the use of numerical methods such as the Trapezoidal Rule and Simpson's Rule. Students will see limits leading to indeterminate forms and the incorporation of L'Hopital's Rule and they will evaluate improper integrals and integrals on which the integrand becomes infinite. The existence of limits of sequences will be determined and tests for convergence of series will be introduced. Analysis of curves given parametrically and in polar form and areas of regions defined by such curves will also be investigated. Ohio Transfer Module Approved Spring 2012 TMM006.

Pre-reqs:

MTH223

MTH225 ANALYTIC GEO & CALC III

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course will examine calculus in three or more dimensions. Some topics covered are differentiation and integration of functions of multiple variables, double and triple integrals; vector-valued functions; graphs of multivariate functions; partial and directional derivatives. Students will find equations of tangent planes and normal lines to a surface. They will apply the chain rule to functions of several variables and solve optimization problems by analysis of critical points including extrema and saddle points. Students will also study line and surface integrals, conservative and inverse square fields, and vector fields. Green's Theorem, Gauss's Divergence Theorem, and Stokes Theorem will be introduced.

Pre-reqs:

MTH224

MTH226 LINEAR ALGEBRA

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

In this course students will study vectors in R_n and operations with vectors including addition, scalar multiplication, dot product, determination of orthogonality, and computation of the angle between vectors. They will use Gauss-Jordan elimination and other matrix methods to solve systems of linear equations and therefore perform common matrix operations including transposition and computation of inverses. Spanning sets and linear independence will be examined in regard to subspaces of R_n along with proofs of theorems concerning rank and nullity. Students will explore linear transformations from R_n to R_m and gain an understanding of kernel and image as well as the relationship between a linear transformation and its matrix representation. Matrix products will come to be viewed as a composition of linear transformations. Through the use of determinants, students will learn of row operations and their effects on the determinant. Further topics will include eigenvalues, eigenvectors, characteristic polynomials, and the axioms of abstract vector spaces over real or complex fields. TAG approved course OMT019, effective Summer 2013.

Pre-reqs:

MTH224



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Mathematics

MTH227 ORDINARY DIFFERENTIAL EQUAT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

In this course students will study first-order differential equations that are separable, linear or exact. Included will be Bernoulli and homogeneous equations. Applications requiring the use of first-order differential equations will include exponential growth and decay, population logistic growth, velocity, mixture, two component series circuits and chemical reactions. Students will also solve higher order homogeneous and nonhomogeneous equations with constant coefficients by the methods of undetermined coefficients and variation of parameters. Equations with variable coefficients, most notably Bessel's equation, will be solved by applying power series techniques. Applications requiring the use of second-order differential equations will include motion, acceleration, and three component series circuits. Students will also perform operations with Laplace and inverse Laplace transforms and solve systems of differential equations using various methods such as elimination, matrices, and eigenvalues. In addition to the analytical methods of differential equations, students will also explore numerical methods such as Euler and Runge-Kutta. TAG approved course OMT020, effective Summer 2013.

Pre-reqs:

MTH224

Social Sciences

GER121 INTRO TO GERONTOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Presents a basic understanding of the historical, cultural, biological, physiological, psychological, and social contexts of aging. Addresses the changes that occur within the aging individual, how these changes influence interactions with social and physical environments, and how the older person, in turn, is affected by these interactions. Includes a discussion of age-related changes in anatomy and physiology, socialization, personality, intelligence, sensation, social support, economics and retirement, death and dying, and crime and fraud.

Pre-reqs:

GER122 PSYCHOSOCIAL ASPECT OF AGING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Examines the process of aging from individual and societal perspectives. Uses a psychosocial approach to discuss the images of growing old, created by individual and institutional structures of society, as well as the myriad of patterns of inequality of gender, race, and economics that are compounded in old age. Topics include a discussion of speed of behavior, mental functioning, mental disorders, socialization, social support, economics and retirement, leisure activities, living arrangements, and death and dying.

Pre-reqs:



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HIS222 World Civ from 17th Century

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will study world history from the mid-17th century to the present.

Pre-reqs:

KARC100 Understanding Architecture

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KARF140 Drawing 1

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KARF140 Sculpture II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KARF140 Painting 1

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KARF999 Fine Arts Core Course

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KARF999 Fine Arts Core Course

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KARF999 Fine Arts Core Course

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KARF999 Fine Arts Core Course

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KARF999 Fine Arts Core Course

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KART120 Art Survey

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KART140 2-D Composition

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KART140 3-D Composition

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KART220 Art History I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KART220 Art History II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KENG210 Introduction to Shakespeare

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KENG220 Great Books I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KENG230 Major Modern Writers

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KHIS110 History of Civilization I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KHIS110 History of Civilization II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KHIS120 U.S. Formative Period

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KHIS120 U.S. Modern Period

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KHUM99 Humanities Core Course

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KHUM99 Humanities Core Course

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KHUM99 Humanities Core Course

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KHUM99 Humanities Core Course

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KHUM99 Humanities Core Course

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMTH999 Math and Critical Reasoning

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMTH999 Math and Critical Reasoning

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMTH999 Math and Critical Reasoning

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMTH999 Math and Critical Reasoning

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMTH999 Math and Critical Reasoning

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS111 Music Fundamentals

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMUS111 Music Rudiments

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS111 Music Theory 1

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS111 Music Theory

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMUS171 Piano

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS211 Music Theory to 1750

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS211 Music Theory from 1750 to 1900

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMUS221 The Understanding of Music

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS221 Music as a World Phenomenon

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS253 Chamber Music

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMUS259 Major Ensemble

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS312 Composition

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS352 Studio Ensemble

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMUS369 Applied Music

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS421 History of Jaz

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KMUS470 Folk Guitar Class 1

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KMUS473 Voice Class

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KPAS230 Black Experience I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSCI9990 Basic Sciences

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KSCI9990 Basic Sciences

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSCI9990 Basic Sciences

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSCI9990 Basic Sciences

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KSCI9990 Basic Sciences

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSOC999 Social Sciences

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSOC999 Social Sciences

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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KSOC999 Social Sciences

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSOC999 Social Sciences

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

KSOC999 Social Sciences

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:



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PSC121 POLITICAL SCIENCE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of the nature, purpose and forms of American government; the relationship between function and structure; the dynamics of political change; and governmental problems of modern society. TAG approved course- OSS011 effective Spring 2007. Ohio Transfer Module Approved effective Autumn 2008. TMSBS approved Spring 2012.

Pre-reqs:

PSY121 GENERAL PSYCHOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Surveys the scientific study of behavior, addressing a wide range of traditional topics including introduction and research; perception; consciousness; learning; cognition; personality; pathology/treatment; development; biological basis of behavior; social and organizational psychology. Emphasizes classical and current theory and research with selected attention to practical application.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

Or IDS102

Or IDS102

Or IDS102

Or SOC121

PSY122 PSYCHOLOGY OF ADJUSTMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Examines selected concepts from various areas of psychology relating to adaptation to change. Adjustment is concerned with understanding how individuals react to changing life situations and how to enhance skills for effectively interacting with others. TMSBS approved Spring 2012.

Pre-reqs:

PSY121



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PSY123 HUMAN GROWTH AND DEVELOP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A study of normal physical, mental, emotional and social development and changes in the development of the individual from prenatal to old age. TMSBS approved Spring 2012. . TAG approved OSS048 effective Spring 2011.

Pre-reqs:

PSY121

PSY124 INDUSTRIAL/ORGANL PSYCH

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Drawing from a wide range of psychological theories, principles and research, this course emphasizes personal and interpersonal skill-building beneficial to the prospective professional. Topics include learning and memory; perception; motivation and leadership; group dynamics and team-building; problem-solving and conflict resolution; communications; and stress management. Ohio Transfer Module effective Autumn 2008.

Pre-reqs:

PSY220 SOCIAL PSYCHOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The scientific study of the way in which people's thoughts, feelings and behavior are influenced by their social and cultural environments. This course focuses on such topics as attitude formation, conformity/obedience, group processes, pro-social behavior, interpersonal relationships, aggression and social cognition. TAG OSS016 approved Spring 2012. Ohio Transfer Module Approved Spring 2012 TMSBS.

Pre-reqs:

PSY121



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PSY221 ABNORMAL PSYCHOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An overview of the range of human behavior, emphasizing current distinctions between normal and abnormal. Explores historical and contemporary cause-and-effect models with focus on current diagnostic and statistical criteria, as well as treatment approaches and related issue. TMSBSeffective Autumn 2008. TAG Approved OSS017 effective Autumn 2005.

Pre-reqs:

PSY121

PSY222 Psy Aspect of Therapy

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Covers the general principles of interaction with a specific focus on those unique challenges confronting the patient and the health care provider. Attention is given to the psychosocial needs of both the patient and the health care provider. Issues of communication, patient-provider relationships, patient dependency, personal values, and relating to people from differing cultures, ages, and special needs are discussed.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

Or IDS102

Or IDS102

Or IDS102

Or IDS102

PSY229 PSYCHOLOGICAL METHODS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course serves as the keystone experience for those pursuing the Associate of Arts in Psychology. This course synthesizes previous course work to allow the student an opportunity to demonstrate understanding and competency of broad psychological concepts. Additionally, students are provided the opportunity to apply this understanding through exploring concepts of interest within the field by conducting and producing an empirical study. Systematic guidance is provided throughout the course to assist students in understanding the process.

Pre-reqs:

PSY123

And PSY220

And PSY221



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PSY229 PSYCHOLOGICAL METHODS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course serves as the keystone experience for those pursuing the Associate of Arts in Psychology. This course synthesizes previous course work to allow the student an opportunity to demonstrate understanding and competency of broad psychological concepts. Additionally, students are provided the opportunity to apply this understanding through exploring concepts of interest within the field by conducting and producing an empirical study. Systematic guidance is provided throughout the course to assist students in understanding the process.

Pre-reqs:

And PSY221

And PSY222

SOC121 SOCIOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Introduces the general theories of the field, and research methods. Students will examine the impact of culture, social interaction, social structure, socialization, and social institutions on social behavior.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

Or IDS102

Or IDS102

Or IDS102

Or PSY121

SOC122 SOCIETY AND TECHNOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of the consequences of technological change on social organizations, cultural values and social institutions, and the response or adaptation of social systems to this change. Includes an assessment of the social problems of a technological age as seen through current events. TMSBS Approved effective Autumn 2008.

Pre-reqs:



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SOC123 DYNAMICS OF THE FAMILY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Explores various social and psychological approaches to family analysis, with emphasis on the family as a system. The transformation of the structure and function of the family from the traditional family to a more diverse definition of family is examined in relationship to changing roles and life issues. TAG approved Course-OSS023 effective Spring 2007. TMSBS Approved effective Summer 2008.

Pre-reqs:

SOC221 SOCIAL PROBLEMS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of significant contemporary problems in American society and their impact on traditional and emerging sociological institutions/systems. Special consideration is given to these topics as they apply to social service agencies. TAG approved course--OSS025 effective Spring 2007.

Pre-reqs:

SOC121

SOC222 JUVENILE DELINQUENCY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Introduces students to the nature and causes of juvenile delinquency. Major theories proposed as explanations of delinquent behavior are reviewed and evaluated. Students will gain an understanding of the life experiences leading up to delinquent behavior, to the external and internal influences on the delinquent and to the choices that lead to a life of crime. Topics such as status offenses, substance use and abuse, street crime and gang membership will be discussed. Preventive strategies, community-based corrections and institutions for juveniles will be reviewed.

Pre-reqs:

SOC121



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SOC225 CULTURAL DIVERSITY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Provide students with an understanding of the cultural diversity of our changing society. Students will examine and discuss the diverse values and characteristics of ethnic and minority populations and how those values influence society, social and economic processes, and race relations. TMSBS Approved. Effective Autumn 2008.

Pre-reqs:

SOC228 Soc Structure & the Individual

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the reciprocal relationship between the individual and society. Topics covered include: the nature and scope of sociological social psychology, symbols and symbolic communication, the structure of social interaction, the development of self and identity, small group processes and collective behavior, and the production of social structure and culture. Special consideration will be placed on interaction in organizational contexts, such as schools, workplaces, and policy decision arenas.

Pre-reqs:

SOC121

SOC229 The African American Experienc

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the unique cultural experiences of African Americans in the United States. This course will primarily explore sociological issues and concepts and their relationship to the African American experience. A broad historical overview will be presented that will focus on African arrival in the Americas, slavery, reconstruction and the Civil Rights movement. Special emphasis will be placed on the social construction of race, discrimination and inequality in the United States and strategies to ameliorate discrimination and achieve equal opportunity.

Pre-reqs:

SOC121



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SOC230 Applied Sociological Methods

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will introduce students to basic sociological research, and test their proficiency in applying theory, research methodologies, and data analysis. The course begins with a brief synopsis of sociological theories and perspectives that can be used to identify and frame social problems and issues. A variety of quantitative and qualitative research methods will be introduced, and a number of statistical analytic techniques will be presented as options for consideration in data analysis. Throughout the course, students will be expected to isolate a problem or issue amenable to sociological analysis and develop a research project in order to demonstrate proficiency in applied sociological research.

Pre-reqs:

Or MTH124

And MTH222

SOC123

And SOC221

And SOC225

And SOC228

And SOC229

ZARC900 Understanding Art

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

See Kent State University course catalog at www.kent.edu.

Pre-reqs:

Education and Human Serv

Education

EDU131 Intro to Child Development

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is an introduction of the characteristics and needs of young children from prenatal stages through age eight. Typical growth and development, developmental variations, and influences on development are examined by exploring physical, cognitive, social, emotional, and language domains. Historical and contemporary theories and research that support the importance of play, environments for learning, relationships, and the role of the teacher are presented. Fifteen observation hours are required.

Pre-reqs:

Or Test & Score: ACT English - 16



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Education and Human Serv

Education

EDU131 Intro to Child Development

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is an introduction of the characteristics and needs of young children from prenatal stages through age eight. Typical growth and development, developmental variations, and influences on development are examined by exploring physical, cognitive, social, emotional, and language domains. Historical and contemporary theories and research that support the importance of play, environments for learning, relationships, and the role of the teacher are presented. Fifteen observation hours are required.

Pre-reqs:

Or Test & Score: Compass English - 050

ENG011

Or ENG101

Or ENG105

EDU132 Observ, Assess, Group Mgt

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces the student to authentic and formal tools and strategies used in early childhood settings to appropriately assess, plan, and guide young children. Topics include methods of observation, recording growth, development and behavior, interpreting assessment data, influence of culture, and child guidance and group management with an emphasis on fostering self-discipline and pro-social skills. Ten observation hours are required.

Pre-reqs:

Or Test & Score: ACT English - 16

Or Test & Score: Compass English - 050

ENG011

Engineering Tech

Automotive

ETD202 ENG INDEP STUDY

Credit Hours: 2 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Engineering Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Engineering Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:



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Engineering Tech

Automotive

ETD204 ENG INDEPENDENT STUDY

Credit Hours: 4 Contact Hours: 40 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Engineering Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Engineering Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:

Engineering

AIT139 Introduction to Robotics

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Basic terminology, theory and application of robotics, including: selection, construction, classification, operating characteristics and safety. Emphasis is given to industrial examples in stand-alone and work cell applications.

Pre-reqs:

CET121 BLDG MAT AND CON MET

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course familiarizes the student with the basic materials of construction according to their physical properties, durability and suitability for use under varying conditions. Use of materials in combination with one another and in the finished product will be examined both verbally and graphically. Emphasis is placed on material selection according to given criteria. This course is Ohio TAG approved. OET016 effective Summer 2008.

Pre-reqs:



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CET122 ARCHITECTURAL DRAFT I

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course familiarizes the student with the preparation and comprehension of basic architectural drawings. Intended for those with little or no drafting experience, the course will concentrate on drafting techniques through the drafting of plans, elevations and selected details, in pencil on vellum.

Pre-reqs:

CET123 ARCHITECTURAL DRAFT II

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course concentrates on the preparation of building details and sections. Emphasis will be placed upon the design of details and their synthesis into a final graphic product.

Pre-reqs:

And CET121

Can be Taken Concurrently

CET122

CET124 HIGHWAY AND MAP DRAWING

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 0 Lab Hours: 4 Other Hours: 0

Surveyors' notes are used by the student to develop and draw topographic and contour maps and plan-profile sheets for highway construction. Proper interpretation and uses of these drawings are also discussed.

Pre-reqs:

MTH125



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CET125 SOIL MECHANICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course includes laboratory tests, soil classification systems, and theoretical concepts relative to soil strengths, stresses in soil masses, settlement under structures, bearing capacity for shallow foundations, retaining walls and slope stability. TAG approved course- OET017 effective Summer 2007.

Pre-reqs:

And MET124

MTH125

Or MTH135

CET221 SURVEYING GRAPHICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will introduce the student to computerized methods of preparing the various types of maps used by surveyors, civil engineers and contractors. Students will also learn how to prepare plans from electronic data recorders. Coding techniques for field use of data recorders will also be discussed.

Pre-reqs:

CET227

And DET125

CET222 CONCRETE AND ASPHALT TEST

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Major emphasis will be placed on the testing procedures used by engineers in determining material acceptance. Concrete and asphalt design methods will be covered, along with the conducting of many tests and the design of pavement. TAG approved course- OET018 effective Spring 2008.

Pre-reqs:

And CET121

MTH125

Or MTH135



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CET223 STRUCTURAL DESIGN I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the student to the analysis of simple structures. Topics include the application of loads on structures, and the analysis and design of steel and concrete members such as beams, columns, and frames. Current computer software for structural analysis will also be used.

Pre-reqs:

MET124

CET224 STRUCTURAL DESIGN II

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Analysis and design of wood members (beams, columns) will be covered in this class. Advanced topics in steel connections and concrete reinforcement of beams, slabs, columns, footings and retaining walls will also be studied. Current computer software for structural analysis will be used.

Pre-reqs:

CET223

CET225 SUSTAINABLE BDG SRVCE SYS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course examines sustainable storm water management, water supply and waste for buildings and how they can be designed to promote conservation, thermodynamics of buildings and how design of the envelope can reduce energy usage. HVAC system design for conservation and lighting design to maximize day-lighting and energy conservation.

Pre-reqs:

CET121

Can be Taken Concurrently



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CET226 ESTIMATING

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course develops the methods and procedures for preparing construction estimates, both manually and electronically. Topics include excavation, masonry, concrete, steel and carpentry. Emphasis is placed on take-off procedures and pricing, consideration of labor and equipment costs, and overhead and profit. Computer programs will be utilized to establish a construction schedule. The student will do a complete estimate of a building project and prepare a competitive bid for the job.

Pre-reqs:

And CET121

And CET122

Or CET237

Or DET125

And ITD122

MTH125

Or MTH135

CET227 SURVEYING I

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

The student is given practical experience in the use of the various surveying instruments while learning how to measure distances, angles and elevations. Methods of determining error of closure, coordinates and area for a property survey are discussed, as well as construction surveys.

Pre-reqs:

MTH125

Or MTH135

CET228 SURVEYING II

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Course covers methods and procedures for establishing line and grade for construction. Circular, spiral and parabolic curves, earth volume determination, cross-sectioning methods and advanced construction staking methods are also covered. The student is also introduced to electronic total stations and data collection. Use of the computer will be emphasized. This course is Ohio TAG approved. OET015 effective Summer 2008.

Pre-reqs:

CET227



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CET229 SURVEYING III

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

The primary emphasis of this course will be the use of the electronic total station to perform surveying operations. Increased abilities and accuracies of field work, including precision measurement, will be demonstrated and obtained by students in such areas as traversing, horizontal and spiral curve layout, construction staking and data gathering for topographic maps. Appropriate computer software will be used. The student will also experience increased usage of digital levels and automatic data collection along with geodetic survey methods and state plane coordinate systems.

Pre-reqs:

CET228

And ECA122

CET231 LEGAL PRINC OF SURVEYING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The laws of land ownership, title guarantees, deed platting, interpretation of property descriptions, riparian rights and establishment of property lines will be discussed. Also covered will be the surveyor's rights, duties and liabilities; the state of Ohio survey laws; and minimum standards for boundary determination, description writing and map preparation. The historical development of the rectangular system of land subdivision will be covered, with primary emphasis placed on Ohio, as it is the site of the first public land surveys.

Pre-reqs:

CET232 LAND PLANNING AND DESIGN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course covers the study of site capabilities and potentials as they relate to land planning and subdivision design. Students will complete preliminary layouts for projects such as industrial parks, housing allotments, planned unit developments and commercial home sites in accordance with zoning and subdivision regulations.

Pre-reqs:

CET122

Or CET124

And CET227

Or DET125

Can be Taken Concurrently



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CET233 ARCHITECTURAL DESIGN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

The basics of design will be examined while solving architectural design problems. The student will be required to prepare preliminary design drawings that fully express the intended solution.

Pre-reqs:

CET122

And CET123

CET234 Architect CAD (Revit 3D-BIM)

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

In this course, students will review architectural working drawings while covering the basic principles of Building Information Modeling (BIM) through the use of Revit Architecture CAD software. Students will be introduced to the tools of Revit Architecture CAD and parametric modeling. The fundamental concepts covered in this course include: user interface, parameters, families, walls, roof openings, rendering, and printing. Students will produce a variety of architectural working drawings utilizing Revit Architecture CAD software.

Pre-reqs:

CET121

And CET122

And DET125

CET235 CONSTRUCT MGT/JOB COST AND SAF

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the progression of a building project from its inception to completion along with the administration of it in the office and in the field. Contract law and the legal implications of documents will be discussed. The student will also be familiarized with specifications, shop drawings and computerized project control software.

Pre-reqs:

CET121

And ECA122

Or ITD122



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CET236 GLOBAL POSITIONING SYS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Introduction to Global Positioning System to determine location on earth in a three dimensional way (latitude, longitude and elevation). Students will practice the use of electronic receivers using radio signals to collect data and process later using computers. The use surveying and topography mapping is also included.

Pre-reqs:

CET227

CET237 INTERPRETING CONSTRUCTION DOC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on interpreting the construction documents for the purposes of estimating, scheduling, and field-directing a construction project. It includes reading the designers' drawings for residential, light commercial, heavy commercial, and civil engineering projects. The specifications for the projects are studied with attention to the materials and installation requirements contained therein.

Pre-reqs:

CET238 TECH PROJECT-CIVIL ENGINEERING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will apply knowledge acquired from technical courses to work in an interdisciplinary team and complete a comprehensive Civil-Surveying projects. (Bridge-Roadway projects, Construction staking-Superstructure design, Volume calculations-Retaining Wall design) The scope will include research, calculations, CAD drafting, mapping, a report and presentation.

Pre-reqs:

CET223

Or CET228



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CET239 BUILDING CODE APPLICATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Commercial building and residential building codes are studied to become familiar with the general intent of the codes in selected areas and how they relate to the construction industry. Special attention is paid to portions of the code that are typically a problem to code officials in the prosecution of their duties.

Pre-reqs:

CET121

Or CET122

And CET237

DET121 ENGINEERING DRAWING

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This is a beginning drafting course that includes use of instruments, geometric constructions, technical lettering, orthographic projection, auxiliary views, sectional views, dimensioning and conventional practice.

Pre-reqs:

DET122 DESCRIPTIVE GEOMETRY

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course is designed to enable the student to properly visualize any object, regardless of its complexity. The three basic geometric elements (points, lines and surfaces) and their relationships to each other are described in detail.

Pre-reqs:

DET121



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DET124 WORKING DRAWINGS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Course covers threads, welding, fasteners, tolerancing, fits, and basic geometric dimensioning as they relate to detail and assembly drawings. Students are required to complete a set of working drawings that are technically correct and feasible for production. Emphasis is placed on the various components that constitute a well-executed drawing.

Pre-reqs:

DET121

And DET125

Can be Taken Concurrently

DET125 BASIC AUTOCAD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course begins with basics and gives students hands-on experience using personal computers to create engineering drawings with AutoCAD software. Topics include: basic components of a CAD system, overview of [Windows] operations, input methods, drawing setup and display, editing, dimensioning, text, layers, hatching, blocks and plotting. This course is Ohio TAG approved. OET012 effective Summer 2008. CTAG CTMET005 approved Spring 2012.

Pre-reqs:

DET126 CUSTOMIZING AUTOCAD

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Building on concepts learned in Basic AutoCAD, this course focuses on more advanced topics: isomode; attributes; creation of toolbars, pull-down and button menus; creation of custom line types and hatch patterns; and an introduction to the fundamentals of AutoLISP programming.

Pre-reqs:

DET125



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DET131 Pro/ENG (Creo Parametric)

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This three-dimensional drawing uses Parametric Technology Corporation Pro/ENGINEER software and covers the basic through advanced commands. The basics focus on practical applications of design to develop parametric solid model representations of parts and assemblies. Advanced design features include the use of skeletons, advanced sketching, geometry, patterns, surface options, dimensions, bill of materials, and features, and plotting.

Pre-reqs:

DET125

DET132 SolidWorks

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to introduce the student to SolidWorks, a parametric feature-based solid modeling program. SolidWorks is used for the design of parts, assemblies and engineering drawings. The student will design actual mechanical components, and the areas of concentration include: basic program syntax, design intent, top down and bottom up design, and parametric relations. Many parts and assemblies will be developed. Engineering drawings will also be generated from the solid models.

Pre-reqs:

DET125

DET223 KINEMATICS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course covers motion of mechanisms. Machine displacement, velocity and accelerations are studied in detail. Using graphical, analytical and numerical approaches, various machine elements are analyzed and designed. The course relates theory learned in the first year with practical machine design applications. PC software programs and spreadsheets are used to verify design solutions

Pre-reqs:

PHY121



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DET226 GEOMETRIC DIM AND TOL

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Designed to introduce students to the type of dimensioning that is part of ANSI Y14.5M1994 dimensioning standard. General tolerancing methods will be reviewed first, then the geometric characteristics symbols and terms will be discussed. Datums will be defined and modifiers will be identified. The geometric tolerances of form, runout, orientation, profile and location will be analyzed in detail. The GD&T system will then be applied to actual manufacturing drawings. Special attention will be given to the problems that are experienced in industry between design, manufacturing and inspection personnel.

Pre-reqs:

DET124

DET230 ADVANCED AUTOCAD (INVENTOR)

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introduction to solid modeling using Autodesk's Inventor and the tools and commands to complete fully parametric three-dimensional parts, assemblies, presentations, and two-dimensional drawings. The student must have an understanding of computer-aided and mechanical drafting.
TAG approved Summer 2012 OET021.

Pre-reqs:

DET125

DET231 TOOL DESIGN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course covers the design and drawing of production jigs, fixtures, and stamping dies. The emphasis in jig and fixtures is placed on coordination of machine tools and standard component parts, using symbol libraries and AutoCAD to draw the final layout. While in stamping dies, a step-by-step approach is emphasized in drawing the details and assembly of a die including material punches, die sets, strippers, gauges, pilots and presses.

Pre-reqs:

DET124

And DET125



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Engineering

EET120 DC CIRCUIT ANALYSIS

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Direct current (DC) circuit analysis. Topics include: voltage, current, resistance, Ohm's law, power, circuit reduction, Kirchhoff's laws, network analysis methods, network theorems, capacitors, inductors, transients and sine wave characteristics. TAG approved course- OET001 effective Summer 2007. CTAG CTEET001 Approved Spring 2012.

Pre-reqs:

MTH125

Can be Taken Concurrently

Or MTH135

Can be Taken Concurrently

EET122 AC CIRCUIT ANALYSIS

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Alternating current (AC) circuit analysis and instrumentation. Topics include: phasor analysis, RL, RC and RLC circuits network theorems, power, resonance, fitters, pulse analysis, transformers and three phase systems. TAG approved course- OET003 effective Spring 2008.

Pre-reqs:

EET120

Or MTH130

Can be Taken Concurrently

And MTH135

Can be Taken Concurrently

EET123 ELECTRONIC DEVICES AND CIRCUITS

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Theory, characteristics and applications of solid-state devices. Devices covered include: diodes, bipolar junction transistors, field effect transistors, operational amplifiers, analog and digital voltage regulators.

Pre-reqs:

EET120

And EET122

Can be Taken Concurrently



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EET125 CIRCUITS MANUFAC TECHNIQUES

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

Safety in the shop and stages of project development are emphasized. Electrical and mechanical shop practice including use of hand tools, through hole and surface mount, soldering techniques, solderless terminations, wire preparations, wiring techniques and parts ordering.

Pre-reqs:

EET120

EET126 ELECTRICAL MACHINES

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course covers the principles of electromagnetic induction, dynamo construction, direct current generation characteristics and operation, armature reaction, DC motor characteristics, operation and control, machine efficiency, single and three-phase transformers theory and operation, construction of three-phase transformers, AC motors and generators. Subjects include: polyphase transformers, induction motors, alternators, synchronous motors, single phase induction, universal and specialty motors.

Pre-reqs:

EET122

Can be Taken Concurrently

EET128 NEC AND ELECTRICAL SYS DES

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

A study of the National Electric Code as it applies primarily to the design of large commercial and industrial installations. Emphasis is placed on definitions, calculating conductor and conduct size, selection of circuit over-current protection, grounding, service sizing transformers connections, short circuit analysis, and other related subject material.

Pre-reqs:

EET122



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EET129 OPTICS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is complementary physics for students in Electrical/Electronic Technology and related fields of study. Topics include: the physical nature of light, optics, lasers, optics and their relation to the electronic field and fiber optics.

Pre-reqs:

PHY121

Or PHY122

EET142 LGHT DES, APP AND ELECL ELEM I

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Develop the skills to design and apply functional and practical lighting systems for industrial and commercial properties. The topics covered include the physical nature of light, color, and sight behavior; and understanding of photometry of light, along with design criteria and calculations including the zonal cavity method; complete coverage of light sources, and application techniques using fixtures, along with the electrical elements necessary for design and controlling of today's and tomorrow's illumination systems.

Pre-reqs:

EET143 LGHT DES, APP AND ELEC ELEM II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course complements Lighting Design, Application and Electrical Elements I. Topics included are advanced lighting design techniques, including hands-on computer studies and in-depth application workshops within the following areas: industrial lighting, exterior lighting, office and educational facility lighting, public building lighting, merchandise and store lighting, along with special applications such as houses of worship, museums, and recreational areas. Also included are sessions on visual performance, in-depth color evaluation, psychological effects of lighting, lighting for improving productivity, safety and security lighting, lighting economics, and energy-saving techniques, calculations, and evaluations, with guidelines for ASHRAE 90. 1-2001.

Pre-reqs:



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EET225 DIGITAL COMM AND SYS ANALY

Credit Hours: 3 Contact Hours: 6 Lecture Hours: 0 Lab Hours: 6 Other Hours: 0

The course deals with implementing data acquisition, instrumentation control, data analysis and presentation. Serial and parallel interfaces are used for the instrumentation communication to the networks (internet and intranet). Programming involves using a graphical user interface (GUI).

Pre-reqs:

EET248

And EET262

Can be Taken Concurrently

EET226 TRANSMISSION AND DISTRIBUTION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course encompasses power transmissions and distribution systems, components and analysis. Field trips to appropriate sites comprise the laboratory requirement.

Pre-reqs:

EET122

EET227 PLCS AND INDUSTRIAL CONTROLS I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A presentation of techniques, application and development analysis of relay control circuits with implementation of electromechanical devices, programmable controllers and variable frequency drives. Circuits, devices and techniques studied include control of motor starting, motor speed control, machine cycle control, control components, pilot devices, maintenance and troubleshooting circuits. CTAG approved Spring 2012 TMSBS.

Pre-reqs:

EET120

Or EST130



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EET228 PLCS AND INDUSTRIAL CONTROLS II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Application and analysis of microprocessor-based computer systems and programmable logic controllers to industrial control systems. Introduction to closed systems control (PID control) and robot control. Introduction and application of Programmable Logic Control Network Interfaces. Human-machine interfaces topics are also addressed.

Pre-reqs:

EET227

EET230 ELECTRONIC CIRCUITS I

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

A study of semiconductors, field effect transistors, h-parameters, device equivalent circuits, small signal analysis, multistage amplification, decibels, frequency analysis, large signal amplifiers, thyristors, power amplifier design, differential amplifiers, operational amplifiers, feedback and oscillator circuits, electronically regulated power supplies, and applications of circuits with these devices. TAG approved course- OET005 effective Spring 2008.

Pre-reqs:

EET123

EET231 ELECTRONIC CIRCUITS II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A study of power amplifier design, heat sinking, differential amplifiers, operational amplifiers, IC fundamentals, feedback and oscillator circuits.

Pre-reqs:

EET230



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EET232 INDUSTRIAL ELECTRONICS

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

The course consists of digital and analog industrial circuits, such as interfacing to programmable logic controller, DC to DC converters, AC inverters, thyristor phase control, pulse generation and electronic motor speed and motion control with supporting laboratory exercises.

Pre-reqs:

EET123

EET233 TECH PROJECT ELECTRICAL

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

A course designed to allow the student to demonstrate capabilities acquired during previous course work in the electrical program. The student will choose an approved project compatible with interest and background. The project may be in the area of controls, machine building, electrical design, or power generation and transmission. The scope will be determined by the project, but in general, will include research, testing, drawing, actual construction, a report and presentation.

Pre-reqs:

EET123

And EET227

EET235 TECH PROJECT ELECTRONIC

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

Designed to allow the student to exercise the capabilities developed in the Electronic Engineering Technology program. The student will choose an approved project compatible with interest and background. Project may be a design, test or microcomputer-based project. During the project, performance will be verified at given intervals with suitable test procedures.

Pre-reqs:

EET125

And EET230

And EET248



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EET244 ELECC TELECOMMUNICATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A course dealing with telecommunications hardware and software. Laboratory exercises address both hardware and software applications.

Pre-reqs:

EET246 TECH PROJ - COMP NETWKG

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A course designed to allow the student to use the capabilities developed in the networking program courses to carry a project from concept to completion.

Pre-reqs:

EET248 WORKSTATION INTERFACING

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

A study of digital circuitry and current operating systems for port input and output management to microcontroller and personal computer bus architecture. The course includes digital and analog interfacing using serial, parallel ports, and various current interface ports. TAG approved course- OET004 effective Spring 2008.

Pre-reqs:

CSE229

And EET262

Can be Taken Concurrently



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EET262 PULSE AND DIGITL INTEGRATD CIR

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 2 Lab Hours: 4 Other Hours: 0

This course is a study of pulse terminology, number systems and codes, TTL and CMOS IC logic circuits and interfacing, Boolean Algebra and logic simplifications, integrated arithmetic circuits, counter, register, encoders, decoders, multiplexers, and demultiplexers, display devices, IC flip-flops, hardware minimization techniques are also covered in conjunction with logic circuit design. TAG approved OET002 effective Summer 2009. CTAG CTEET002 approved Spring 2012.

Pre-reqs:

Or CSE229

Or CSE233

ECA128

Or ECA222

EET263 INDUSTRIAL SENSORS/ADV APPLCS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

EET263 will cover common sensors used throughout industry. Students will see how basic concepts discussed in circuit analysis courses are applied to sensor design and applications. Course will provide hands on labs in wiring and testing of various types of sensors used in industry.

Pre-reqs:

EET120

Or EST130

MET123 MATERIAL SCIENCE

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The study of the science of materials used in the fields of engineering and manufacturing. Emphasis is placed on the physical properties of materials. Areas covered include: stress and strain, hardness, creep, fatigue, metallurgy, equilibrium diagrams, and heat treatments. Advantages, disadvantages and applications of ferrous metals, non-ferrous metals, plastics, elastomers, composites and ceramics are discussed.

Pre-reqs:



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MET124 STATICS/STR OF MATERIALS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

The study of major force systems under conditions of equilibrium. Various methods are used to analyze the effects loads have on structural members and machine components. Topics include force systems, friction, stress and strain, moment and shear diagrams, centroids, moments of inertia, and beam deflection analysis. Emphasis is placed on learning the fundamentals and applying them to solving problems. TAG approved course- OET007 effective Spring 2008.

Pre-reqs:

PHY121

Can be Taken Concurrently

Or PHY221

Can be Taken Concurrently

MET221 ADV STRENGTH OF MATERIAL

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The study of torsion, columns, combined stresses, thin-walled pressure vessels, connections (bolted, riveted and welded), and statically indeterminate beams. Emphasis is placed on learning the fundamentals and applying them to solving problems. TAG approved course- OET008 effective Spring 2008.

Pre-reqs:

MET124

MET222 FLUID POWER

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

The study of the subjects essential to understanding the design, analysis, operation and application of fluid power systems is the focus of this course. Theoretical principles will be used to develop an understanding of hydrostatics and hydrodynamics. Teamwork skills will be reinforced through hands-on experimentation and written presentation of results. Students will submit formal reports in a format that requires the use of word processing and spreadsheet software. TAG approved course - OET009 effective Summer 2008.

Pre-reqs:

MET124



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MET223 DYNAMICS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Methods are developed to analyze kinematics and kinetics of bodies. Practical derivations, equations, and applications of displacement, velocity, acceleration, work, energy, power, impulse, and momentum in both planar and rotational motion will be applied.

Pre-reqs:

MET124

MET225 MANUFACTURING PROCESSES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Students will investigate a variety of manufacturing techniques including casting, powder metallurgy, metal forming, hot and cold working, arc and gas flame welding, rapid prototyping, microelectronic manufacturing, and chip-type machining processes. Scheduled tours of local industry and/or guest speakers augment the material for the traditional format. The web 3 format will replace tours with DVD review and reflection assignments of all manufacturing processes. CTAG CTME010 approved Spring 2012.

Pre-reqs:

MET226 TECH PROJECT-MECHANICAL

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 0 Lab Hours: 4 Other Hours: 0

Students will apply knowledge acquired from technical courses and practical work experience to work independently and complete a technical task. A project is chosen by the student and proposed for approval by the instructor. Topics may be chosen from any area of mechanical, electro-mechanical, design, manufacturing, testing, quality assurance, etc. The scope of the project could include a literature survey, schematics, research analysis, design, fabrication, assembly and testing to create a new or optimize a current design or system. The project will entail students working in teams with elements of both design and mechanical engineering technology.

Pre-reqs:

DET125

Can be Taken Concurrently

And MET228

Can be Taken Concurrently



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MET227 THERMODYNAMICS & HEAT TRANSFER

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Fundamentals of thermodynamics: heat, work and energy. Thermodynamic processes: constant volume, constant pressure, isothermal, adiabatic and polytropic, P-V-T relationships, work and internal energy. Laws of thermodynamics: enthalpy, entropy and reversibility. Gas power cycles and efficiencies: Carnot, Otto, and Diesel. Fundamentals of heat transfer: conduction, convection, radiation and heat exchangers. Emphasis is placed on learning the fundamentals and applying them to solving problems.

Pre-reqs:

PHY121

MET228 MACHINE DESIGN

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Descriptive, dimensional, and kinematic analysis of machine components including bearings, shafts, couplings, cam, brakes, gear drives, belt and chain drives, and clutches are the focus of this course. Laboratory work includes problem solving in the design of machine components with spreadsheet analysis when necessary.

Pre-reqs:

MET124

MET229 Intro to Alt & Ren Energy/Fuel

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides an introduction to alternative and advanced energy resources such as solar, wind, geothermal, hydro-electric, bio-mass, alternative fuels and an introduction to fuel cells. The technology of each energy source, along with the efficiency and cost associated with energy generation, conversion and distribution is studied. The introduction to fuel cell technology includes the components (anode, cathode, electrolyte, and flow fields), fuels (hydrogen and hydrocarbons) and types of fuel cells (Polymer Electrolyte Membrane, Solid Oxide, Alkaline, Phosphoric Acid and Molten Carbonate). Laboratory experiences include solar, wind, and fuel cell experiments.

Pre-reqs:



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MET230 ANA/APPS OF FUEL CELLS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course addresses the different types of fuel cells: Polymer Electrolyte Membrane, Solid Oxide, Alkaline, Phosphoric Acid, Molten Carbonate, and Direct Methanol among others. Material properties, operating characteristics, functions and real world applications are discussed and analyzed through different experiments.

Pre-reqs:

MET229

MET231 FUEL CELL SYSTEMS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers in detail fuel cell stack, fuel processor, power conditioner, heat exchanger and the remainder of subsystems for the fuel cell to function as required. Topics include: interconnect plates, series versus parallel electrical conduction, hydrogen fuel and storage, hydrocarbons and fuel processing, instrumentation and programming, power conditioning of DC and AC, heat transfer, and interfacing with the power grid.

Pre-reqs:

MET230

MET232 FUEL CELL PROJECT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

In coordination with faculty advisor, student works on a project to design and build a fuel cell system by selecting a marketing need (vehicular, portable, home, industry...), determining components, developing cost justification, documenting design process, creating bill of materials, procuring necessary materials, documenting methodology assembling a model, evaluating performance, and presenting the proposal.

Pre-reqs:

MET231

Can be Taken Concurrently



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MST126 PIPEFITTING PRINC AND APPLIC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Piping systems, valves, fittings, metal piping and non-metallic piping are identified and their use and maintenance are presented. Strainers, filters, traps and other accessories such as pressure and temperature gauges are discussed in detail, including a detailed description of their operation and required maintenance. The procedures, use, and application of the BOCA basic plumbing code is also covered.

Pre-reqs:

Engineering Independent Study

ETD201 ENG INDEPENDENT STUDY

Credit Hours: 1 Contact Hours: 10 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Engineering Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Engineering Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:

ETD203 ENG INDEPENDENT STUDY

Credit Hours: 3 Contact Hours: 30 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Engineering Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Engineering Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:



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Engineering Independent Study

ETD223 ENGINEERING CO-OP

Credit Hours: 3 Contact Hours: 30 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Co-op opportunities are available to students enrolled in Engineering Technologies. Students may contact their faculty advisors or Career Services for more information.

Pre-reqs:

Engineering/Applied

AET121 SUSTAINABLE/AET SOURCES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the student to alternate/sustainable energy sources such as solar, wind power, geothermal, hydroelectric, bio-energy and fuel cells. The course addresses solar topics such as efficiency of photovoltaic cells, both tracking and stationary solar arrays; wind power topics such as where to install wind farms; geothermal power topics such as how to take advantage of the earth's core temperatures to efficiently heat and cool a facility; hydroelectric and micro-hydroelectric power topics such as generation and distribution of power to customers; bio-energy topics such as biomass to energy and algae generation of petroleum products and hydrogen gasses; and fuel cell topics such as components (anode, cathode, electrolyte), fuels (hydrogen and hydrocarbons), and types of fuel cells (polymer electrolyte membrane, solid oxide, alkali, phosphoric, molten carbonate).

Pre-reqs:

AET122 ANALYSIS/APP OF SET

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course addresses the different types of sustainable alternative energy and the analysis, applications, and maintenance of sustainable alternative energy systems. Predictive analysis will be addressed to identify problems before a catastrophic failure develops. Infrared thermal imaging technology procedures will be covered in this course. Ultrasonic examination procedures will be addressed to detect problems. Electrical testing procedures will be covered with a review of AC and DC circuit analysis. Physical inspections, operating characteristics, functions, and real world applications are discussed and analyzed through different experiments and site visits.

Pre-reqs:

AET121



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AET123 SUSTAINABLE/ALT ENERGY SYS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers in detail complete sustainable alternative energy systems including service, inspections, and predictive maintenance. This course will address the subsystems and balance of plant systems for the sustainable alternative energy systems. Topics include: safety procedures, interconnect systems, series versus parallel electrical conduction, power conditioning of DC and AC voltages and currents, heat transfer, and interfacing with the power grid.

Pre-reqs:

AET122

AET124 SUSTAINABLE/ALT ENERGY PROJECT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

In coordination with a faculty advisor, the student works on a project to design and build a sustainable alternative energy system by selecting a marketing need (home, industry...), determining components, developing cost justification, documenting design process, creating bill of materials, procuring necessary materials, documenting the methodology, assembling a model, evaluating performance, and presenting the proposal.

Pre-reqs:

AET123

AET221 SOLAR THERMAL SYSTEMS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course explores the operation, design, installation, maintenance, performance estimating, site selection considerations and troubleshooting of solar thermal systems for consumer and commercial applications. This course explores the following topics: site cost suitability and load analysis, solar heating safety practices, standards, codes and certifications, system selections for specific climates and applications, operation and installation methods, proper use of balance-of-system components and materials, solar heating system maintenance, geothermal energy and heat pumps.

Pre-reqs:

AET121



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AET222 SOLAR PHOTOVOLTAIC SYSTEMS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course explores the operation, design, installation, maintenance, performance estimating, site selection considerations and troubleshooting of solar photovoltaic systems for consumer and commercial applications. The course prepares students for the North American Board of Certified Energy Practitioners (NABCEP) Photovoltaic (PV) Entry Level Exam. This course explores the following topics: Photovoltaic markets and applications, photovoltaic system safety, fundamentals of photovoltaic solar energy, photovoltaic system components and array sizing principles, photovoltaic system electrical and mechanical design, photovoltaic system performance analysis, maintenance and troubleshooting and system selection for specific climates and applications. TAG approved ORE003 CTAG: CTSP001

Pre-reqs:

AIT122 MACHINE TOOLS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

With assigned lab projects, the student will cover basic machine operations used in area industries. Topics include safety, basic machines, precision tools, layout procedures, cutting tools and various machine setups to accomplish laboratory projects. Inspection and quality control will be stressed.

Pre-reqs:

AIT123 ADVANCED MACHINE TOOLS

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 2 Lab Hours: 4 Other Hours: 0

With assigned lab projects, the student will cover advanced machine operations not possible in the beginning course. In-depth coverage of inspection and quality-control precision tools for students with basic knowledge of the trade.

Pre-reqs:

AIT122



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AIT124 PRINCIPLES OF RIGGING

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Provides a study of safe rigging principles, practices, and equipment. Topics of study include fiber and wire rope, block and tackle, lift and rigging chain, proof test, safe working load, design factor, sling geometry, fittings, and lifting and moving equipment.

Pre-reqs:

AIT125 COMMERCIAL PLUMBING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to provide the student with an overview of the tools, materials, fixtures, practices, and processes used in commercial and residential plumbing. A focus on design and utilization with respect to traps, drains, vents, sizing, and overall codes will be addressed. Joining, design characteristics, and application for the various types of plumbing are also covered in detail.

Pre-reqs:

AIT126 IND ELECL APPLIC AND SAFETY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course covers an overview of basic commercial/industrial electrical applications. Topics include safe industrial/commercial: electrical principles and applications, wiring techniques and procedures, and basic parallel and series circuits. Safe and effective multimeter usage and industrial instrumentation.

Pre-reqs:



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AIT127 LOW PRESSURE STEAMPLANT OPERTS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the principles and applications of low pressure (15psi or less) boiler operation and construction. Principles and applications of maintenance and safety are also covered in detail. This course also counts toward the overall hours toward taking your low psi boiler operator's license and helps to prepare you to take the test. This course counts for 1,400 hours of the state-required experience hours needed to apply to take the low pressure boiler operator's licensure test.

Pre-reqs:

AIT128 HIGH PRESSURE STEAMPLANT OPERT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the principles and applications of high pressure (15psi or more) boiler operation. Topics include: Boiler Feed pumps and fuel feeder, feedwater heaters and feedwater treatment, and fuel combustion. Principles and applications of maintenance and safety are also covered in detail. This course also counts toward the overall hours towards taking your high psi boiler operator's license and helps to prepare you to take the test. This course counts for 1,100 hours of the state-required experience hours needed to apply to take the high pressure boiler operator's licensure test.

Pre-reqs:

AIT129 STATIONARY STEAMPLANT ENGINEER

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the principles and applications of Ohio code law for boiler operation, abatement equipment, boiler design and application mathematics, duplex pump and steam engine. This course also applies towards the hours necessary towards the 3rd class stationary engineer's license exam. This course counts for 1,000 hours of the state-required experience hours needed to apply to take the third-class stationary engineer's state license exam.

Pre-reqs:



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AIT130 STRUCTURAL MAINTENANCE WELDING

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course will cover safe working procedures of structural/ maintenance welding and the student will lay out and set up various structural welding scenarios using gussets, back plates, and other standard repair implements. They will be supervised for proper form and procedure while performing the required practices in lab. The preparation, cutting and joining of carbon steel (A-36) using oxy/acetylene gas and SMAW (DCEP) electric arc in the flat, horizontal, vertical and overhead positions will also be performed.

Pre-reqs:

AIT131 ELECTRICAL APPLICATIONS SFTY

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course provides the knowledge and skills required to understand, safely service and troubleshoot basic electrical circuits. Basic electricity and DC circuits, as well as proper meter use, are explained. The relationship and understanding of current, voltage, and power schematics, troubleshooting basic electricity, digital concepts, PLC concepts and electronics are covered.

Pre-reqs:

AIT132 STATIONARY STEAMPLANT ENGINEER

Credit Hours: 6 Contact Hours: 8 Lecture Hours: 4 Lab Hours: 4 Other Hours: 0

This course covers the principles and applications of Ohio code law for boiler operation, abatement equipment, boiler design and application mathematics, duplex pump and steam engine. This course counts for 1,000 hours of the state-required experience hours needed to apply to take the third-class stationary engineer's state license exam.

Pre-reqs:

AIT122



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AIT133 ADV ELECRL APPS AND SFTY

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course is designed specifically for non-electrical personnel looking to gain advanced knowledge of circuit analysis and an understanding of analog signals used for instrumentation devices. This course will also provide switching, programming logic controller (PLC), and basic logic concepts and fundamentals of computer based systems.

Pre-reqs:

AIT131

AIT134 PREDICTIVE MAINTENANCE TECH I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to familiarize the student with predictive maintenance technologies in the area of using oil, thermography, vibration, and ultrasonic analyses.

Pre-reqs:

And MST125

MST221

AIT136 ALTERNATE ENERGY SOURCES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to expand a student's knowledge of different forms and ways to produce energy without conventional combustion fossil fuels. This class gives the student the needed information to explain why and how we generate many forms of alternative energy and why it is important. It discusses the needs and uses of wind turbines, solar, fuel cells, and other alternative energy sources as part of energy solutions in our economy.

Pre-reqs:



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Engineering Tech

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AIT137 CAD/CAM

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course is designed to give a student the basic understanding of programming for machining centers and for turning centers, using the latest Computer Aided Design/Computer Manufacturing CNC programming software.

Pre-reqs:

AIT122

And IET223

AIT138 ROOT CAUSE ANALYSIS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course outlines a structured approach to identifying the factors that resulted in the nature, magnitude, location, and timing of harmful outcomes (consequences) of one or more past events. Root Cause Analysis identifies what behaviors, actions, inactions, or conditions that need to be changed to prevent recurrence of similar harmful outcomes and to identify the lessons learned to promote the achievement of more desirable outcomes or consequences. This course identifies and applies the major tools needed to achieve positive results.

Pre-reqs:

AIT220 Industrial Robotics

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course will provide knowledge and skills to setup and program an industrial grade robot. The student will use a FANUC robot and simulation software to acquire hands on experience working with programming software, troubleshooting, and to perform a complete system setup.

Pre-reqs:

AIT139



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AIT221 ADVANCED CNC PROGRAMMING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover in great detail all the facets of a CNC lathe as compared with a CNC vertical turning center, as well as a CNC vertical milling machine as compared with a horizontal milling machine. The similarities as well as the differences and the advantages of each machine style will be covered. The details will include the accuracy, ease of operation, and the preventive maintenance required. The different specialized fixturing will be stressed.

Pre-reqs:

Or ARL121

Or ARL122

IET223

AIT222 PREDICTIVE MAINTENANCE TECH II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 1 Other Hours: 0

This course is designed to expand a student's knowledge of predictive maintenance technologies in the areas of oil, thermography, and vibration analyses. The students will then go on to discuss the Root Cause Failure Analysis and how to implement an effective predictive maintenance program.

Pre-reqs:

AIT134

AIT225 ADVANCED CAD/CAM

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course is designed to advance the student's knowledge of Computer Aided Design/Computer Aided Manufacturing CNC programming software.

Pre-reqs:

AIT137



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AIT226 ROBOTIC VISION

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will provide knowledge and skills to set up and program an industrial robot for vision applications. Student will learn about hardware, software, and concepts for setting up a vision system for a Fanuc robot. At completion of course student will be able to setup an industrial robot to complete a vision task.

Pre-reqs:

AIT220

ARL121 CNC LATHE OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course has been designed to help students read, understand and develop the confidence to edit the various programming formats used in standard EIA/ISO, Conversational and Macro types of programming used in lathe operations. The students will be given the opportunity to apply the information learned from the lecture portion of the course on the lathes available to enter the various Ariel styles of programs into the machine tool control.

Pre-reqs:

ARL122 CNC MILL OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course has been designed to help students read, understand and develop the confidence to edit the various programming formats used in standard EIA/ISO, Conversational and Macro types of programming used in mill operations. The students will be given the opportunity to apply the information learned from the lecture portion of the course on the mills available to enter the various Ariel styles of programs into the machine tool control.

Pre-reqs:



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ARL123 CNC GRINDING OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course has been designed to help students read, understand and develop the confidence to edit the various programming formats used in standard EIA/ISO, Conversational and Macro types of programming used in various grinding operations. The students will be given the opportunity to apply the information learned from the lecture portion of the course on the grinders available to enter the various Ariel styles of programs into the machine tool control and to develop the ability for the various aspects of OD grinding.

Pre-reqs:

ARL124 BASIC METROLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides an in-depth study of measuring principles, instruments, and techniques. The measuring instruments most commonly used in industry, including coordinate measuring machines, are covered. Emphasis is placed on proper use of equipment in terms of prevention and minimization of reading errors as related to Geometric Dimensioning and Tolerances.

Pre-reqs:

ARL125 METALLURGICAL INSPECTION

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course has been designed to give the student a working knowledge of the processes in the manufacturing of the various types of steel and iron and the advantages and disadvantages of each. The student will be able to identify various metals from a typical color code chart as well as identify the visual characteristics of each material. The various tests used for problems from stress, work hardening, welding, as well as other evidence will be covered.

Pre-reqs:



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ARL126 METALLURGY FOR FERROUS MATL

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will cover the processes used in the manufacturing of the various types of ferrous materials and their characteristics. The products covered will range from basic cast iron through the advanced materials such as titanium. The course will also go into the detail of the properties of each of the metals and why they are chosen for a particular product, such as Ariel compressor components, and the newer materials used in automobiles, armor plating, and aerospace parts.

Pre-reqs:

ARL128 PRECISION GRINDING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to give the student an introduction to the different types of precision grinding. Both CNC and manual grinders will be discussed. The manual function and all aspects of preparing grinding wheels for operation, including the basics of selecting, dressing, and balancing the different types of grinding wheels as applied to the various types of metal will be discussed in great detail. The set-up of specialized grinding fixtures will be explained. All safety issues will be stressed.

Pre-reqs:

ARL129 FUNDAMENTAL OF CNC OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The course will cover features of the mill and lathe, manual operations and all aspects of preparing machine tools for operation (including all aspects of mounting and setting up cutting tools), manually entering and test running programs including MDI operation, and the restarting of the programs at random stopping points.

Pre-reqs:



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ARL130 CNC TRNG CTR PROG EIA FORMAT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course provides the core knowledge to read, understand, and edit the various programming formats used in standard EIA/ISO, and Macro types of programming used in turning center operations. With assigned lab projects, the student will reinforce the concepts covered.

Pre-reqs:

ARL131 CNC MACHING CTR PRG EIA FRMT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course provides the core knowledge to read, understand, and edit the various programming formats used in standard EIA/ISO, and Macro types of programming used in turning center operations. With assigned lab projects, the student will reinforce the concepts covered.

Pre-reqs:

ARL132 CNC TURNING CTR PRG-CONV FRMT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course provides the core knowledge to read, understand, and edit the various programming formats used in standard Conversational, Mazatrol, and Macro types of programming used in turning center operations. With assigned lab projects, the student will reinforce the concepts covered.

Pre-reqs:



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ARL133 CNC MACHNG CTR PROG-CONV FRMT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This Computer Numerical Control course provides the core knowledge to read, understand, and edit the various programming formats used in standard Conversational, Mazatrol, and Macro types of programming used in machining center operations. With assigned lab projects, the student will reinforce the concepts covered.

Pre-reqs:

ARL129

ARL139 MECHANICAL FASTENERS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will present a practical guide pertaining to mechanical fastener systems for technicians who work with a wide variety of fasteners found in industry. The course will outline complex and critical design elements focused on safety, reliability and long service life.

Pre-reqs:

ARL140 MATERIAL HAND & COMP PREP

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the procedures, practices, and methods of lifting and maneuvering large compressor parts with appropriate crane lifting techniques. Students will lift guides, frames, cylinders and other large parts of varying sizes to learn appropriate techniques for lifting and positioning equipment for part cleaning and assembly tasks.

Pre-reqs:



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ARL141 COMPRESSOR SUB ASSEMBLY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the procedures, practices, and methods for executing all of the sub assembly processes implemented in the assembly of natural gas compressors. Students will identify all of the sub assembly components, execute the assembly process for the components, and prepare a complete sub assembly which could be used as a part of a fully assembled compressor.

Pre-reqs:

ARL142 SMALL UNIT COMPRESSOR ASSEMBLE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the procedures, practices, and methods for assembling small unit natural gas compressors. Each component and part of the small unit natural gas compressor will be identified. Procedures for assembling parts and components will be demonstrated and practiced so that the student will be ready to assemble a small unit natural gas compressor.

Pre-reqs:

ARL143 COMPRESSOR COATING PROCESSES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course instructs students in the processes, procedures, and techniques for coating compressors in the production environment. There is a review of safety procedures for working with paint, pigments, thinning agents and industrial painting equipment. Students will learn fundamentals of how to operate automatic coating equipment used in paint booths. Manual coating processes and techniques will also be addressed.

Pre-reqs:



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ARL144 CYLINDER HYDROTESTING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the basic knowledge and skills required to successfully hydrotest cylinders for compressor operations. Students will evaluate work orders and understand the requirements for each job as dictated by the work order. They will complete all steps required to prepare a cylinder for hydrotesting. They will learn how to execute the test process and then close out a test with final documentation.

Pre-reqs:

ARL145 COMPRESSOR ION NITRIDING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course teaches students about the processes, procedures, and techniques for ion nitriding compressor parts in preparation for nitriding equipment. Students will learn how to prepare a load for a nitriding operation and appropriately remove parts from the nitriding unit upon completion of the nitriding operations.

Pre-reqs:

ARL146 COMPRESSOR DOC INTEGRATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover documentation, information access, and reporting required to successfully engage in the compressor assembly process. The build book will be a primary focus of the course where students will understand how the book is generated and used to help guide successful assembly of compressors. Students will also use MRP systems to locate and report data to fuel the assembly process. ISO procedures will also be identified and reviewed.

Pre-reqs:



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ARL221 IND LAYOUT AND TRIGONOMETRY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The course covers algebra, geometry, and trigonometry as they are applied in the machining industry. The Cartesian coordinate system will help in determining functions of angles greater than 90°. The course concludes with oblique angle trig (law of sines and law of cosines).

Pre-reqs:

ARL222 ADVANCED CNC OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the more advanced features of CNC machine tools, including more difficult blueprints to work from, to include more complex operations such as thread cutting on the CNC lathe as well as helical circle milling on the CNC vertical machining center. The more complex programs will be handwritten and will include trigonometry calculations for the correct cutting paths. The students will also learn the use of sub programs and when to use more complex canned cycles.

Pre-reqs:

ARL223 MFG CELL LDSHP AND COMMUNIC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to educate the student on the cellular manufacturing concepts and overall plant layout logistics & efficiencies. Machining family concepts will be discussed and explored in detail. The theory and application of leadership will also be explored in a manufacturing environment as well as the process of effective group communication and various communication models.

Pre-reqs:



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ARL224 MASTER CAM OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to give the student an introduction to the different types of precision grinding. Both CNC and manual grinders will be discussed. The manual function and all aspects of preparing grinding wheels for operation, including the basics of selecting, dressing, and balancing the different types of grinding wheels as applied to the various types of metal will be discussed in great detail. The set-up of specialized grinding fixtures will be explained. All safety issues will be stressed.

Pre-reqs:

ARL230 FIELD SERVICE OPERATIONS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the common challenges that can arise when working in a field environment to disassemble, rebuild, or assemble compressors and compressor components. Strategies will be taught for dealing with environmental conditions, required adjustments for different compressor applications, and working effectively with customers in the field.

Pre-reqs:

ARL231 COMPRESSOR FINAL INSPECTION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the final inspection process which is performed before a compressor is certified as ready to be delivered. Students will learn the final inspection process and evaluate compressors in the key inspection areas including clearances, alignment, and component balancing. Students who complete this course will be capable of executing a final inspection of any compressor.

Pre-reqs:



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ARL232 ROTARY UNIT ASSEMBLY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the procedures, practices, and methods for assembling rotary unit natural gas compressors. Each component and part of the rotary unit natural gas compressor will be identified. Procedures for assembling parts and components will be demonstrated and practiced so that the student will be ready to assemble a rotary unit natural gas compressor.

Pre-reqs:

ARL233 IND APP, CUSTOMERS & PRODUCTS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will explore the fundamental uses of compressors in a production environment. Types of customers, distributors and end users pertaining to their specific needs will be reviewed. Specific applications will be related to the applicable compressor unit families. Key subcomponents of the compressor system will also be reviewed and studied as to how they operate as a compressor unit in a package.

Pre-reqs:

ARL234 GAS COMPRESSION/FLOW DYNAMICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will review basic math required to understand equations and ratios which impact the function of natural gas compressors. Material will focus on understanding equations which are important to compressor assembly and operations. Students will also review variables and understand the relationships between variables in these types of equations.

Pre-reqs:



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ARL235 MIDSIZE UNIT COMPRESSOR ASSEMB

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the procedures, practices, and methods for assembling midsize unit natural gas compressors. Each component and part of the natural gas compressor will be identified. Procedures for assembling parts and components will be demonstrated and practiced so that the student will be ready to assemble a midsize unit natural gas compressor.

Pre-reqs:

ARL142

ARL236 ADV CYLINDER HYDROTESTING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course builds on the knowledge and skills taught in the cylinder hydrotest course to show students how to troubleshoot more advanced applications of cylinder testing processes. The course will further explore hydrotesting equipment, resolving advanced issues. Students will learn how to identify and resolve advanced leakage issues that may arise. They will also learn procedures and processes for additional testing processes using helium gasses in rotary cylinders.

Pre-reqs:

ARL144

ARL237 ADV COMPRESSOR COATING PROC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course builds on the compressor coating processes course to teach coating processes of large and mid- sized units. The course also addresses maintenance and troubleshooting of automated paint equipment and paint booth environments.

Pre-reqs:

ARL143



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ARL238 ADV COMPRESSOR ION NITRIDING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course instructs students in the material hardening process and explores the equipment used to harden materials pertaining to the ion nitriding process. Students will understand the metallurgical changes occurring in the materials that result in hardening the outer case. Components of the nitriders will be defined and basic troubleshooting and maintenance tasks will be addressed.

Pre-reqs:

ARL145

ARL239 LARGE LINE UNIT COMP ASSEMBLY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the procedures, practices, and methods for assembling large unit natural gas compressors. Each component and part of the natural gas compressor will be identified. Procedures for assembling parts and components will be demonstrated and practiced so that the student will be ready to assemble a large unit natural gas compressor upon completion.

Pre-reqs:

CDL121 CDL-CLASS A-SAFE OPER & CONTROL

Credit Hours: 5 Contact Hours: 6 Lecture Hours: 4 Lab Hours: 2 Other Hours: 0

This course will provide the student with instruction and requirements needed to take the written CDL permit test (CDIP). Employability skills and basic first aid/CPR will be addressed. Instruction and requirements necessary to take the (H) hazardous materials and (T) double and triple configuration endorsement knowledge tests is included. Instruction consists of classroom and simulator. Students must be at least 18 years of age and able to provide a valid Ohio State Driver's License with minimum two years experience, proof of U. S. Citizenship (birth certificate and Social Security card), meet minimum Department of Transportation (DOT) medical and vision standards and pass a DOT drug screen. Individuals seeking the (H) endorsement are required to undergo a security threat assessment and obtain clearance from the Transportation Security Administration (TSA).

Pre-reqs:



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CDL122 CDL-CLASS A-ADV OPER & MAINT

Credit Hours: 6 Contact Hours: 8 Lecture Hours: 4 Lab Hours: 4 Other Hours: 0

This course will provide the student with the instruction and requirements needed to take the Ohio CDL Class A driver's license examination. Students will acquire the advanced skills needed to respond to road emergencies, hazards and malfunctions. Non-vehicle activities include log keeping, trip planning and driver's health. Instruction will include classroom, simulator, behind the wheel range and street practice. Students must be at least 18 years of age and able to provide a valid Ohio State Driver's License with minimum two years experience, proof of U. S. Citizenship (birth certificate and Social Security card), meet minimum Department of Transportation (DOT) medical and vision standards and pass DOT drug screen. Individuals seeking the hazardous (H) endorsement are required to undergo a security threat assessment and obtain clearance from the Transportation Security Administration (TSA).

Pre-reqs:

CDL123 COMM DRIVERS LICENSE-CLASS A

Credit Hours: 2 Contact Hours: 8 Lecture Hours: 0 Lab Hours: 0 Other Hours: 8

This course will provide the student with the instruction and requirements needed to take the Ohio CDL Class A driver's license examination. Instruction will include behind the wheel range and street practice. A CDL test vehicle (tractor and trailer) will be provided for the CDL skills test. Students must be at least 18 years of age and able to provide a valid Ohio State Driver's License with minimum two years experience, proof of U. S. Citizenship (birth certificate and Social Security card), meet minimum Department of Transportation (DOT) medical and vision standards and pass a DOT drug screen. Individuals seeking the (H) endorsement are required to undergo a security threat assessment and obtain clearance from the Transportation Security Administration (TSA).

Pre-reqs:

ENV121 REGULATIONS AND COMPLIANCE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will review the history of the American environmental movement and will then look at the fundamental concepts of the environmental law and regulation system. Major environmental laws such as the Clean Water Act, Clean Air Act, SARA, NEPA, SUPERFUND, OSHA and RCRA will be reviewed. The primary focus of the class will be to meet the compliance and liability aspects of the various regulations.

Pre-reqs:



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ENV123 OSHA 10-HR GEN IND SAFETY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This safety orientation course meets the requirements of the Occupational Safety and Health Administration(OSHA) 10-hour training requirement. Students are made aware (general overview) of the most common hazards encountered on the job sites and taught methods (related safety guidelines) to avoid them. Students are introduced to the OSHA standards and requirements as they pertain to general industry. Students that attend the required time and pass a final examination receive a certificate of completion.

Pre-reqs:

ENV124 TRANSP HAZARD MTL TRNG

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed to familiarize the student with Department of Transportation Pipeline and Hazardous Safety Administration (DOT PHMSA) Hazardous Materials Regulations (HMR). The student learns how to properly complete shipping papers, label & mark hazardous material packages and how to placard highway and rail vehicles plus air and vessel containers. The student completes exercises using the Hazardous Materials Table (HMT) and the Emergency Response Guidebook (ERG). Hazardous materials transportation regulations are accessed online. Students successfully passing a written test in accordance with DOT PHMSA regulations will receive a DOT PHMSA Hazardous Materials Initial Training Certificate.

Pre-reqs:

ENV125 INTR HAZRDS MTRLs AND WSTE MGT

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is designed to introduce the student to the hazards of all chemicals produced or imported as well as laws and regulations governing the management of solid and hazardous wastes. It is intended to satisfy training requirements of the OSHA Hazard Communication Standard (29 CFR Part 1910.1200(h)) and applicable EPA solid and hazardous waste regulations (40 CFR Part 260 through Part 265). Students that successfully complete this course receive a certificate of completion.

Pre-reqs:



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ENV126 HAZWOPER-MODERATE RISK

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

An internet-based course that provides 24 hours of interactive training online for those needing Moderate Risk certification (29 CFR Part 1910.120). The course consists of an online text, interactive exercises, web links, self-grading quizzes and final exam. This is a 100% web-based course.

Pre-reqs:

ENV127 WATER CERTIFICATION EXAM PREP2

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

In this course students will review materials that may appear on the Operator Certification Examination administered by the Ohio EPA for Class I, II and III Water Operators. Students will meet with an instructor twice a week for two hours each meeting over an eight week period to review material that might appear on the certification examination prior to administration of the certification examinations.

Pre-reqs:

ENV128 WASTEWATER CERTIFICATION EXAM PRE

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

In this course students will review materials that may appear on the Operator Certification Examination administered by the Ohio EPA for Class I, II and III Wastewater Operators. Students will meet with an instructor twice a week for 2 hours each meeting over an eight week period to review material that might appear on the certification examination prior to administration of the certification examinations.

Pre-reqs:



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ENV129 WATER/WASTEWATER-PERMITS&ADMIN

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Students will become more familiar with safety issues and responsibilities associated with the permitting and certification process as it relates to water and wastewater treatment plant operations. They will also have the opportunity to improve their people skills and operations management techniques as they relate to water and wastewater treatment plant operations. This is a 100% web-based course.

Pre-reqs:

ENV130 WATER/WASTEWATER-PUMPS, MAINT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Using the internet, students will cover a very broad range of topics including centrifugal pumps, selection and replacement of packing, seals, hydraulics, operating conditions, preventive maintenance, motors, plans and specifications, hazard types, plant equipment and procedures, lab safety and fire prevention and hazard communications. This is a 100% web-based course.

Pre-reqs:

ENV131 WASTEWATER TREATMENT I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. This introductory course includes instruction in water pollution control, preliminary and primary treatment, fixed film processes and suspended growth systems. Along with reading assignments from the text, the course is enhanced with up-to-date photographs, audio, interactive exercises and online links. This is a 100% web-based course.

Pre-reqs:



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ENV132 WASTEWATER TREATMENT II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will focus on issues of concern to wastewater treatment facilities. The topics of this course include activated sludge process control, sludge digestion and solids handling, nitrogen and phosphorus removal and odor control. Along with reading assignments from the text, the course is augmented with audio, photographs, interactive exercises and online tasks. This is a 100% web-based course.

Pre-reqs:

ENV133 WASTEWATER TREATMENT-INDUSTRL

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will focus on issues of concern to industrial wastewater treatment facilities. The topics of this course include regulatory requirements; flow measurement; preliminary, physical and chemical treatment; filtration; and treatment of metal streams. Along with reading assignments from the text, the course is augmented with audio, photographs, interactive exercises, and onlinks. This is a 100% web-based course.

Pre-reqs:

ENV134 WASTEWATER COLLECTION SYSTEMS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will gain a working knowledge of wastewater collection systems safety procedures, sewer inspection and testing, pipeline cleaning and maintenance, underground repair, lift stations, equipment maintenance, and sewer rehabilitation. Along with reading assignments from the text, the course is enhanced with up-to-date photographs, audio, interactive exercises, and links. This is a 100% web-based course.

Pre-reqs:



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ENV135 WASTEWATER ANALYSIS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Using the internet, students will be introduced to basic laboratory safety and gravimetric, spectrophotometric, electrochemical, titrimetric, and microbiological methods. The units include instruction on the laboratory procedures for microscopic, coliform, BOD5, COD, ammonia, grease and oil, chlorine and solids analysis. Along with reading assignments from the text, the course is enhanced with up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV136 WATER TREATMENT I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include regulatory monitoring, iron and manganese removal, filtration, coagulation, flocculation, and disinfection. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and onlink. This is a 100% web-based course.

Pre-reqs:

ENV137 WATER TREATMENT II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will focus on issues of concern to surface water treatment facilities. The topics of this course include reservoir management, taste and odor control, corrosion management, softening, demineralization, and trihalomethanes. Instrumentation and sludge handling and disposal issues are also addressed. Along with reading assignments from the text, the course is augmented with audio, photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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Engineering Tech

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ENV138 WATER DISTRIBUTION SYSTEMS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The topics of this course include water storage facilities, operation and maintenance of water mains, water quality issues, disinfection, and safety. This is a 100% web-based course.

Pre-reqs:

ENV139 WATER ANALYSIS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Using the internet, students will be introduced to basic laboratory safety and gravimetric, spectrophotometric, electrochemical, titrimetric and microbiological methods. The units include instruction on the procedures for regulatory sampling and safety, and specific analytical procedures for total residue, fluoride, pH, ammonia, acidity, alkalinity, calcium, chloride, hardness, and coliform analysis. This is a 100% web-based course.

Pre-reqs:

ENV140 BASIC WATER TRTMT-COAG/FLOC

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when dealing with coagulation and flocculation. Along with reading assignments from the text, the course is enhanced with audit, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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ENV141 BASIC WATER TRMT-DISINFECTN

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when dealing with a variety of disinfection processes. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This a 100% web-based course.

Pre-reqs:

ENV142 BASIC WATER TRMT-FILTRATION

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when dealing with the filtration processes. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV143 BASIC WATER TRMT-FLUORIDATION

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the Internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when dealing with the fluoridation processes. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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ENV144 BASIC WATER TRMT-IRON & MANG

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when dealing with iron and manganese levels. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV145 BASIC WATER TREATMENT-QUALITY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when insuring the quality of the water. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV146 BASIC WATER TRTMNT-SEDIMENTATION

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include general issues operators face when dealing with sedimentation basins. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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Engineering Tech

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ENV147 BASIC WATR TREATMNT-WATER SOURC

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of water treatment. The topics of this course include an overview of water treatment and reservoirs management. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV148 WATER DISTR TN SYS-DISTRIB FAC

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topics of this course involve the issues of water distribution systems and facilities. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV149 WATR DISTBTN SYS-STORAGE SYS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topic of this course is that of water storage facilities. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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ENV150 WATR DISTRBN SYS-SYS DISINFCTN

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topic of this course is that of water disinfection systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV151 WTR DISTBN SYS-SYSTEM O M

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topic of this course is that of the needs for proper operations and maintenance of water distribution systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV152 WTR DISTRIBUTION SYS-SYS SAFETY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topic of this course is that of safety issues confronting water distribution systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links.

Pre-reqs:



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ENV153 WTR DISTRBN SYS-VALVES,MAIN ME

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topics of this course are that of proper maintenance operations of the values, and meters found in water distribution systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV154 WATER DISTRIBTN SYS-WATR MAINS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topic of this course is that of water mains for distribution systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV155 WATER DISTRIBTN SYS-WATR QUALT

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will obtain a working knowledge of potable water distribution systems. The specific topic of this course is that of water quality for distribution systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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ENV156 WASTEWATER TRTMT-DISINF CHLORN

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues operators face when disinfecting wastewater. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV157 WASTEWATER TRTMT-FIXED FILM PR

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues regarding the trickling filter process when treating wastewater. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV158 WASTEWATER TRTMT-PLLUTN CONTRL

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues regarding what is meant by the term water pollution, the steps needed to treat it and the math used. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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ENV159 WASTEWATER TRTMNT-POND SYSTMS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues regarding use of wastewater ponds as a treatment method. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV160 WASTEWATER TRTMT-PRELIMY TRTMT

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues regarding the steps in preliminary treatment of wastewater. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV161 WASTEWATER TRTMT-PRIMARY TRTMT

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues regarding the steps in primary treatment of wastewater. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:



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ENV162 WASTEWATER TRTMT-SUSP GRTH SYS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Using the internet, students will explore the rudiments of wastewater treatment. The topics of this course include general issues regarding suspended growth systems. Along with reading assignments from the text, the course is enhanced with audio, up-to-date photographs, interactive exercises, and online links. This is a 100% web-based course.

Pre-reqs:

ENV163 WATER/WASTEWATER MATH CHEM

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

In this course, students will be introduced to math and chemistry concepts used in water and/or wastewaterplant operations. This is for a credit course that can be taken by water and/or wastewater plant operators planning to take a certification exam or seeking post- certification contact hours. This is a half-semester course with 2-2 hour classes each week for 8 weeks.

Pre-reqs:

ENV164 SUSTAINABLE GR BLD TECH

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This is an introductory course providing information on how Green Building Technologies improve the environment through proper site development considerations-including brownfield site remediations strategies, storm water run-off management, renewable energy sources, and managing water efficiency in buildings. Improving energy efficiencies through passive solar heating and cooling methods are emphasized. Selecting building materials made from rapidly renewable resources or made with recycled content are discussed. Economic and social benefits of Green Building Technologies are also emphasized. Students are exposed to the "Leadership in Energy and Environmental Design: (LEED) Green Building Rating System established by the U.S. Green Building Council.

Pre-reqs:



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ENV165 OSHA 10 HR CONSTRUCTION SAFETY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 0 Lab Hours: 1 Other Hours: 0

This safety course meets the requirements of the Occupational Safety and Health Administration (OSHA) 10-Hour training requirement for the construction industry. Students are made aware (general overview) of the most common hazards encountered on construction sites and are taught methods (related safety guidelines) to avoid them. Students are introduced to OSHA standards and requirements as they pertain to the construction industry in accordance with 29 CFR 1926. Students that attend the required time and pass a final examination receive an OSHA 10-Hour Construction Safety Card issued by an OSHA authorized instructor. TAG approved course ORE004, effective Summer 2013. CTAG approved course CTS001, effective Summer 2013.

Pre-reqs:

ENV166 LEAD SAFE RENOVATOR

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 0 Lab Hours: 1 Other Hours: 0

Common renovation activities such as sanding, cutting, and demolition may create hazardous lead dust and chips by disturbing lead-based paint, which can be harmful to adults and children. To protect against this risk the EPA issued the Renovation, Repair and Painting Rule. It requires contractors performing renovation, repair, and painting projects that disturb lead-based paint in pre-1978 homes, child care facilities and schools be certified by the United States Environmental Protection Agency and use certified renovators who are trained by EPA-approved training providers. This course will provide students with techniques to ensure lead-safe work practices are followed. Training will include information necessary to contain a work area, minimize dust and how to properly clean up a renovation area to prevent the spread of harmful lead dust. The student will be issued a certificate as a Lead Safe Renovator in accordance with federal and state regulations upon successful completion of the course and a comprehensive final exam.

Pre-reqs:

ENV169 RADIATION SAFETY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course provides the student with both classroom and applied training. Students are introduced to basic atomic structure and the process of ionization. Classroom topics include: the four basic types of radiation, units of measurement (roentgen, rad, rem, curie and SI units), the sources of radiation, biological effects, dosimetry, ALARA, contamination control, radiological emergencies, radiological postings plus administrative and engineering controls. Applied training consists of hands on training. Students learn and demonstrate how to: don and doff radiological personal protective equipment, use survey instruments and dosimetry to measure radiation. Students also learn proper radiological decontamination procedures for both contaminated personnel and equipment. The course is based on the requirements of the Code of Federal Regulations 10 CFR 835 for Department of Energy radiological workers. A certificate of completion as a Radiation Worker II is provided to the student after the successful completion of the course with a score of 80% or above on a comprehensive final examination.

Pre-reqs:



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ENV221 OSHA - 40 HR - HAZWOPER

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

(40 hour OSHA training) This course satisfies the requirements of OSHA Standard 1910.120. It is a health and safety training course required for all personnel who may work at a hazardous waste site. Topics to be covered include: hazardous materials chemistry, toxicology, air purifying respirators, self-contained breathing apparatus, protective clothing, site decontamination and response incidents. Safety certificate is awarded upon completion of this course.

Pre-reqs:

ENV222 INDUST PROCES & POLUTION CNTRL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces the students to environmental control systems and practical applications of their operation and maintenance. Particular attention given to piping and instrumentation diagrams, the reading of strip charts, continuous emission monitors, stack and source sampling and volumetric measurement of fluids. General troubleshooting techniques are also covered.

Pre-reqs:

CHM121

Or CHM141

And MTH107

ENV223 BASIC GEOLOGY/HYDROLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the basic components of the earth, and will include a study of its interior, minerals, rock structure, weathering and mass movement. Basic soil properties, testing, and topographic maps will be studied. The properties and flow patterns of water in both surface and subsurface conditions will be considered with emphasis placed on how hazardous materials are spread from a contaminated site.

Pre-reqs:

MTH107



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ENV224 AIR SAMPLING-ANA & CONTR

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will review the standard methods of air sampling for gases and particulate matter. Students will learn proper monitoring equipment selection, operation and maintenance. Laboratory experience will emphasize sampling techniques, data collection and proper reporting methods. A broad overview of all aspects of air pollution will be included.

Pre-reqs:

CHM121

Or CHM141

And ENV121

ENV225 SOLID AND HAZ WASTE SMPLG

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the methods and procedures of managing solid and hazardous wastes according to applicable federal regulations such as the Resource Conservation and Recovery Act. Included will be the study of physical facilities and operational standards of sites that treat, store and dispose of solid and hazardous wastes. Case studies will be used to determine the methodologies of waste stream audits, pollution prevention, permitting and land ban determination.

Pre-reqs:

CHM121

Or CHM141

And ENV121

ENV226 WATER SAMPLING, ANAL, CONT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover water sampling techniques and chemical analysis of water quality. Included will be methods of measurement, techniques for sampling and required field instrumentation. Laboratory analysis, data interpretation and proper reporting methods will be developed.

Pre-reqs:

CHM121

Or CHM141

And ENV121

And ENV223



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ENV228 HEALTH AND SAFETY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course helps students develop an understanding of site occupational health and safety programs including: good industrial and construction workplace practices, ergonomics, chemical toxicology, respiratory protection, personal protective equipment, record keeping, industrial hygiene sampling, ventilation measurements, machine guarding methods and accident prevention.

Pre-reqs:

ENV121

ENV230 OSHA 8-HR HAZWOPER REFRESHER

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is required by OSHA regulation as an annual refresher for the materials covered in the OSHA 40-hour HAZWOPER class. Material to be reviewed include: hazardous material chemistry, toxicology, respiratory protection, protective clothing, site decontamination and response to incidents. A certificate is awarded upon completion of this course.

Pre-reqs:

ENV231 OSHA 30 HOUR GENERAL INDUSTRY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course is designed to develop an understanding of site occupational health and safety programs. This 30-hour comprehensive course is ideal for anyone with safety and health responsibilities and for employee safety and health awareness. This course covers all the topics in the OSHA 10-hour General Industry course plus additional OSHA approved topics. Participants who attend the required time and pass a final examination receives a certificate of completion.

Pre-reqs:



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ENV232 ASBESTOS ABATEMENT WKR INTIAL

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course provides 16 hours of asbestos abatement worker refresher training in which students will review the various types of asbestos and will be provided updates on federal and state regulations pertaining to the removal of asbestos. Students will review proper asbestos removal procedures from ceilings, walls and pipes and how to set up a containment area that will protect the public from asbestos exposures during abatement activities. Students will review self-protection methods from asbestos hazards by the use of respirators, personal protective clothing and HEPA asbestos filtration units. Upon initial and continued approval by the Ohio Department of Health this course will provide the training requirements established by the Ohio Department of Health and the United States EPA to continue to be a licensed asbestos abatement worker in the state of Ohio. Upon successful completion of the course which includes a comprehensive examination, a certificate of completion will be provided to the student

Pre-reqs:

ENV234 ASBESTOS ABATEMENT WKR REFRSH

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 0 Lab Hours: 1 Other Hours: 0

This course provides 16 hours of asbestos abatement worker refresher training in which students will review the various types of asbestos and will be provided updates on federal and state regulations pertaining to the removal of asbestos. Students will review proper asbestos removal procedures from ceilings, walls and pipes and how to set up a containment area that will protect the public from asbestos exposures during abatement activities. Students will review self-protection methods from asbestos hazards by the use of respirators, personal protective clothing and HEPA asbestos filtration units. Upon initial and continued approval by the Ohio Department of Health this course will provide the training requirements established by the Ohio Department of Health and the United States EPA to continue to be a licensed asbestos abatement worker in the state of Ohio. Upon successful completion of the course which includes a comprehensive examination, a certificate of completion will be provided to the student.

Pre-reqs:

ENV232

ENV236 ENV HLTH AND SAFTY SPEC PROJECT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to allow the student to exercise the capabilities developed in other courses within the environmental areas. Special current topics important to the environmental or safety field are also incorporated into this class. Students will choose approved projects compatible with their interest and background. An environmental problem will be studied and all regulations that affect the problem are researched, and a plan of action for compliance, abatement and/or remediation will be developed.

Pre-reqs:

ECA122

And ENV121

And ENV221

Or ITD122



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EST129 SWITCHGEAR, TRANS, CONTROLS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The course covers low and high voltage circuit breakers and switchgear primarily from 4KV to 15KV. It shows how switchgear is basically constructed, how circuit breakers work, and general maintenance of such equipment. The basic theory of transformers and connection schemes of common types of transformers including dry and wet type distribution transformers, power transformers, and instrument transformers is explained. Control ladder and wiring diagrams with an introduction to input and output control devices, are presented and implemented in lab.

Pre-reqs:

EET120

Or EST230

EST132 FUNDAMENTAL OF ELECTRICITY

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 4 Lab Hours: 1 Other Hours: 0

This course consists of analytical and laboratory techniques with heavy emphasis on resistive and reactive DC & AC electrical circuits, as well as the principles of electronic devices, including diodes and transistors.

Pre-reqs:

MTH101

EST221 ELECTRONIC TBLSHOOTING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 1 Other Hours: 0

Course covers: principles of troubleshooting with electronic/electrical testing instruments, troubleshooting electric motors and generators, industrial controls, residential and industrial wiring, power supply repair, signal tracing, "in-circuit" semi-conductor testing and pulse circuit troubleshooting.

Pre-reqs:

EET123



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EST222 Industrial Networks

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will provide a basic understanding of different types of networks that are used in an industrial facility. Course will cover network terminology, hardware, software, and basic troubleshooting.

Pre-reqs:

EET120

Or EST130

EST230 Electrical Circuits & Devices

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course is to provide a general understanding of electricity and the operation of electrical devices; to be able to make electrical measurements and basic calculations involving voltage, current, resistance, reactance, capacitance, and power; and to learn how to supply power to commercial equipment.

Pre-reqs:

Or Test & Score: M093 Transfer Prof/Placement - 3

And Test & Score: M094 Transfer Prof/Placement - 3

Or MTH093

And MTH094

MTH123

EST235 Power Gener & Grid Tech

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course encompasses power generation from creation from multiple sources (coal, nuclear, turbine, fuel cell, etc.) and various distribution technologies until it enters the home or business. Students will learn the technology of local and national transmission and distribution systems as well as bulk generation, distributed generation, microgrid and smartgrid technologies. Energy efficiency, storage, cogeneration and energy security will be studied and analyzed during this course.

Pre-reqs:

EST230



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ETD225 SPECIAL TOPICS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Special topics in Engineering, Industrial, and Emerging Technologies Division.

Pre-reqs:

ETD226 SPECIAL TOPICS

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Special topics in Engineering, Industrial, and Emerging Technologies Division.

Pre-reqs:

ETD227 SPECIAL TOPICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Special topics in Engineering, Industrial, and Emerging Technologies Division.

Pre-reqs:



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ETD228 SPECIAL TOPICS

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Special topics in Engineering, Industrial, and Emerging Technologies Division.

Pre-reqs:

ETD229 SPECIAL TOPICS

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

Special topics in Engineering, Industrial, and Emerging Technologies Division.

Pre-reqs:

EUT121 OVERHEAD LINE TECHNOLOGY I

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of electrical overhead line worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. Emphasis on skills to safely climb wood poles, the operation of a line truck, setting poles, framing poles on the ground, and operation of a digger derrick. Student will receive instruction to pass the Class "A" Commercial Driver's License skills test. Rigging, wire identification, and use of rubber goods will also be learned. Safety topics include: Rigging Safety Awareness; Fall Protection; Flame Retardant Personal Protective Equipment; Medic First Aid; Blood-Borne Pathogens; and good housekeeping.

Pre-reqs:



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EUT122 OVERHEAD LINE TECHNOLOGY II

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of electrical overhead line worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. Emphasis on skills required to perform work on secondary voltage circuits. Emphasis on the installation of services, street lighting, and secondary circuits, bucket truck familiarization and bucket rescue. Overview of distribution electrical systems, and Occupational Safety and Health Administration (OSHA) rules are also included. Safety topics include: Work Zone Traffic Control; Minimum Approach Distances; Rubber Protective Equipment; and knowledge of UD Excavation/Trenching/Shoring.

Pre-reqs:

EUT121

EUT123 SUBSTATION TECHNOLOGY I

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of substation worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. This course provides the student with the basic knowledge and skills necessary to assist with the performance of maintenance and testing in substations and switchyards.

Pre-reqs:

EUT124 SUBSTATION TECHNOLOGY II

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of substation worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. This course provides the student with a broader skill set as well as the enhanced knowledge and skill level necessary to safely assist in the performance of routine repairs on distribution and power transformers, bushings, circuit breakers, disconnect switches, control equipment and other de-energized electrical equipment used in the distribution of electrical energy.

Pre-reqs:

EUT123



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EUT221 OVERHEAD LINE TECHNOLOGY III

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of electrical overhead line worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. Emphasis on skills required to identify, install, and maintain primary underground residential distribution (URD) equipment, including various methods of troubleshooting URD primary and secondary circuits. Grounding distribution circuits will also be learned. Students will develop the knowledge and skill to safely perform rubber gloving assignments utilizing the insulate and isolate techniques and will perform various tasks while working on an energized three-phase circuit under controlled conditions. Safety topics include: fire extinguisher safety, temporary protective grounds, stored energy devices, and utilities protective service.

Pre-reqs:

EUT122

EUT222 OVERHEAD LINE TECHNOLOGY IV

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of electrical overhead line worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. Emphasis on line equipment, hot line tools, power industrial trucks, and transmission (including wood pole, steel pole, ladder, and tower climbing). Bucket, pole top, and self-rescue will also be reviewed. Safety topics include: spill response, live Line tools, hazardous communications, and Accident Prevention Handbook review.

Pre-reqs:

EUT221

EUT224 SUBSTATION TECHNOLOGY III

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of electrical substation worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. This course provides the student with the advanced knowledge and skills necessary to safely work in a supervised capacity on energized equipment and in an unsupervised capacity on de-energized equipment employed in the production and distribution of electrical energy. This course also introduces the student to power transformer testing, troubleshooting, alarm systems, circuit breaker troubleshooting, reclosers and sectionalizers, oil circuit breaker maintenance and voltage regulators.

Pre-reqs:

EUT124



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EUT225 SUBSTATION TECHNOLOGY IV

Credit Hours: 5 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 18 Other Hours: 0

Supervised practical applications of electrical substation worker job duties in a directed practice setting under direct supervision of FirstEnergy personnel. This course provides the student with the knowledge and skills to work safely and competently in a supervised or unsupervised capacity. This course is the culmination of prior courses with the introduction of advanced knowledge and skills related to motor operated air brake switch, electronic recloser controls, SF6 gas breakers, air circuit breaker maintenance, oil circuit breaker timing and travel tests, calibration of various substation equipment, potential transformer testing, phasing, switching procedures and the performance of energized primary work. The work activities in this final semester will be performed in a crew setting and will require continuous team work with fellow students.

Pre-reqs:

EUT224

HVC121 HVAC PRINCIPLES I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Overview of heating, ventilating, and air conditioning, including basic design, equipment characteristics, venting, the refrigeration cycle, system control, basic heat transfer, basic airflow principles, air quality, product quality and comfort principles.

Pre-reqs:

HVC122 HVAC PRINCIPLES II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An in depth study of the main principles of HVAC. Beginning with safety, topics covered include piping, refrigeration piping, the refrigerant cycle, and refrigerant handling. Also studied are duct sizing and layout, air test and balance, including blower drives and system components. Heating and cooling loads will be discussed. Special attention will be given to electrical wiring and controls and troubleshooting.

Pre-reqs:

HVC121

Can be Taken Concurrently



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HVC124 MOBILE CAB CLIMATE CNTL SYS/AP

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will provide the student with a comprehensive understanding of the safe installation, start-up, service, and field repair of the MacBone Industries Ltd. Mobile Heating/AC Unit. The refrigeration cycle and leak detection/repair will be covered: including brazing, evacuation, and charging. At course conclusion of this course the mobile (Automotive) EPA refrigerant handling testing & certification will be conducted.

Pre-reqs:

HVC125 Sheet Metal Layout & Fabric

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course covers the layout of basic sheet metal duct fittings using geometrical methods and the fabrication of fittings using industry accepted joining methods. Topics include layout and fabrication of rectangular, round, and transition fittings in straight, curved, and offset configurations, as well as design impacts on airflow efficiency in various types of fittings.

Pre-reqs:

HVC221 HVAC FURNACE COMBUSTION PRINC

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

The National Fuel Gas Code (NFPA54) will be used as the basis for this course of study. Subjects covered will include appliance venting and vent sizing, combustion air requirements and sizing, mechanical room configuration and equipment location. Published manufacturer installation procedures will be a significant part of this course.

Pre-reqs:



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HVC222 HVAC DESIGN & APPLICATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The student's understanding of heat transfer will be expanded to encompass application. The principles of thermodynamics, psychometrics, and calculating heating and cooling loads are emphasized. Heating, venting and combustion air will be included. Reading plans and specification, systems design, and equipment selection are studied.

Pre-reqs:

HVC122

HVC223 HVAC SYS OPER AND TRBLSHT- HT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Heating equipment and system operation and studied together with development of problem solving techniques. Through the use of laboratory demonstrations, measurements, observations and experiments with HVAC systems and components the student learns proper system diagnosis and repair procedures.

Pre-reqs:

HVC122

HVC224 HVAC SYS OP AND TRBLST- COOLNG

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Cooling equipment and systems operation are studied together with development of problem solving techniques. Through the use of laboratory demonstrations, measurements, observations and experiments with HVAC systems and components, the student learns proper system diagnosis and repair procedures.

Pre-reqs:

HVC122



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HVC227 HVAC FIELD INSTALL TECH PROC

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Laboratory intensive introduction to air conditioning system field installation techniques and procedures.

Pre-reqs:

HVC122

Can be Taken Concurrently

HVC228 HVAC SYS AIRFLOW DUCT SIZING

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

A detailed examination of air and its properties and HVAC system airflow principles along with duct sizing are presented. As a final project, a properly sized duct system is designed given equipment performance data.

Pre-reqs:

MTH101

HVC229 AIR CONDITNING REFRIG CYCLE

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The refrigeration cycle is presented together with the operation of compressors and metering devices. Equipment studied includes residential air conditioning and heat pumps, their principles of operation, their components and auxiliary devices, and performance ratings.

Pre-reqs:



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HVC230 HVAC RESIDENTIAL EQUIP SIZING

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course provides the HVAC student with a powerful, efficient, and highly accurate method of load estimating and duct selection. The software covered in this course simplifies a very complex and time-consuming task of manually calculating the estimated load with the Right J software package. Outside classwork may be assigned.

Pre-reqs:

HVC231 HVAC MOTORS AND COMPRESSORS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Motors and compressor types, designs, applications, and failure modes are studied. Heavy emphasis is placed on failure symptoms, causes and resolution. Actual failed motors and compressors are examined and probable causes and remedies determined.

Pre-reqs:

HVC232 ADVANCED HVAC APP CONTROLS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

HVAC equipment application design concentrating on commercial and light commercial systems is presented. Roof-top units, economizers, water chillers, air handling units and IAQ are covered. Commercial system controls and zone controls including residential zoning are studied.

Pre-reqs:

HVC222

And HVC227



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HVC233 HVAC BID SPECIFICATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course of study will make use of actual historic construction industry plans and specifications. The student will be taken through the entire estimation process including work and technical specification reading and comprehension, acquisition of bids and calculation of pricing, preparation of the bid, formatting the bid according to specifications and accepted standards and delivery of a comprehensive bid quotation. Labor rates, available workforce, travel time, completion dates, subcontracts, bonds, accepted alternates, project value and how these items affect the delivered quotation will be introduced during the class exercises.

Pre-reqs:

HVC222

HVC234 HVAC ELECTRICAL SYS & APPLIC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides the knowledge and skills to understand and safely install, service, and troubleshoot HVAC/R electrical circuits and electronics. Basic electrical foundation fundamentals are provided. HVAC/R electricity and electronic circuits are covered in depth. A focus on proper meter usage is engrained in the process. Motors, controls, and other electrical/electronic devices are covered also. The sequence of operation and diagnostic trouble-shooting, utilizing pictorial, schematic, and hands on approaches are provided.

Pre-reqs:

And HVC121

Can be Taken Concurrently

MTH101

HVC235 REFRIGERATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A basic understanding of mechanical refrigeration from safety to cryogenics is presented. The refrigeration cycle, components, controls, instrumentation, installation, servicing, and troubleshooting are studied. Various components including the compressor, condenser, filter-dryer, and refrigeration controls are studied in detail

Pre-reqs:

HVC122



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HVC236 ADV HVAC ELECTRICAL APPLIC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course encompasses complex HVAC control circuitry schemes, including microprocessor controlled as used on large chillers, large tonnage DX, and DDC controls. The student outcome is full understanding of control functions, sequence of operation, and troubleshooting skills applicable to complex HVAC circuitry. This ensures that the student has the ability to systematically and logically troubleshoot these complex systems with efficiency and accuracy.

Pre-reqs:

HVC234

HVC237 HVAC COMMERCIAL CONTROLS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will further the students knowledge of control by introducing the student to the equipment and devices that control HVAC commercial equipment, pneumatics, and Direct Digital Controls. The lectures/labs will discuss the function, operation, service, and how to troubleshoot the controls.

Pre-reqs:

HVC238 CHILLER OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will discuss the specifics of the operation of chillers. The lectures will include small 25 ton units to large commercial 500 ton chillers. Including installation of the units, service and general maintenance, and troubleshooting and repair. The course will cover how to locate the problems and how to safely manage repairs working with large pieces of equipment.

Pre-reqs:

HVC122



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IET121 INDUSTRIAL MANAGEMENT CONCEPTS

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This is an introductory course which examines the essential elements of contemporary management in the industrial organization. Topics include, but are not limited to: the changing role of supervisors/managers; the decision-making process; supervisor/manager-employee relationships; team management and problem solving; planning and communication.

Pre-reqs:

IET223 COMPUTER NUMERICAL CTRL

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 2 Lab Hours: 4 Other Hours: 0

The milling section provides an introduction to part programming for the vertical axis milling machine. The lathe section provides an introduction to programming a computer-numerical controlled lathe.

Pre-reqs:

IET270 DIM METROLOGY AND INSPECT I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an in-depth study of measuring principles, instruments, and techniques. The measuring instruments most commonly used in industry, including coordinate measuring machines, are covered. Emphasis is placed on proper use of equipment in terms of prevention and minimization.

Pre-reqs:

Or Test & Score: ACT Math - 20

Or Test & Score: Compass Algebra - 042

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

Or MTH093

And MTH094

MTH101



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MST121 BLUEPRINT READING

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course provides the opportunity for students to develop the skills of reading and interpreting blueprints. Orthographic projection and concepts of visualization are discussed before the various types of blueprints are introduced. "The reading of," rather than the drawing of blueprints is emphasized throughout the course, although freehand sketching is included. Types of prints covered include sheet metal, building, piping, hydraulic and electrical.

Pre-reqs:

MST122 HYDRAULC AND PNEUMATIC PRI

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The study of fluids, their properties, behavior and applications. Topics cover compressible and incompressible fluids, viscosity and basic hydraulic and pneumatic pumps, actuators, valves and piping used.

Pre-reqs:

And MST123

Can be Taken Concurrently

MTH101

MST123 HYDRAULC AND PNEUMATIC APP

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The course deals with the study of hydraulic applications, types of circuits used, how to pipe the various systems and how to troubleshoot the hydraulic/pneumatic circuits.

Pre-reqs:

And MST122

Can be Taken Concurrently

MTH101



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MST124 FURNACE COMBUSTION PRINC

Credit Hours: 1 Contact Hours: 1.1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Fuels, the chemistry of combustion, ratio for perfect combustion, mixing of air and fuel, products of combustion, efficiency, heat transfer, heat loss, pressure terminology, burner components, control valves and safety are all topics that are covered.

Pre-reqs:

MST125 BASIC PUMPS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the centrifugal, propeller, turbine, rotary, reciprocating, metering and special purpose pumps. Pump applications, selection and routine maintenance are also reviewed, along with various types of packings and seals that are used.

Pre-reqs:

MST127 PRINCIPLES OF WELDING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Instruction in preparation, cutting, and joining similar and dissimilar metals by welding using gas or electrical processes. Oxygen/acetylene and AC/DC electric are the major techniques used, but other processes will be reviewed.

Pre-reqs:

MST128

Can be Taken Concurrently



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MST128 WELDING LAB

Credit Hours: 3 Contact Hours: 6 Lecture Hours: 1 Lab Hours: 5 Other Hours: 0

Safe working procedures are reviewed to teach the student safe working habits while using welding and sheet metal forming, cutting and joining equipment. Instruction on arc, MIG, and TIG welding equipment follows with daily practice when welding in horizontal, vertical and overhead positions. A welding project can be selected later in the course to further the student's knowledge and mastery in welding and shaping actual useable items. Gas welding and cutting is also taught and practiced during this course.

Pre-reqs:

MST127

Can be Taken Concurrently

MST130 ELEMENTS OF MICROPROCESS

Credit Hours: 4 Contact Hours: 3 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

The study of microprocessor system hardware including basic understanding of the software used to control microprocessor systems. Troubleshooting techniques are studied and applied to service any microprocessor system. Meters, oscilloscopes and various probes are used in servicing work.

Pre-reqs:

EST128

MST131 STATS PROCESS CTRL CHART

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will introduce students to the concepts of variation and defect prevention. Students will learn the formulas and the correct application of control limits for variable and attribute control charts as well as how to plot data and apply basic detection rules for process control.

Pre-reqs:

MTH101



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MST133 PRESS WORKING FUNDAMENTALS

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers metal deformation theory, presses and ancillary equipment, die construction and die component identification. The student will draw various detailed components of dies, using a variety of drafting techniques.

Pre-reqs:

MST134 HYDRAULIC AND PNEUMATIC SYS

Credit Hours: 6 Contact Hours: 8 Lecture Hours: 4 Lab Hours: 4 Other Hours: 0

This course is a combination of MST122 and MST123 and is the study of fluids, their properties, behaviors and applications. Topics include: basic hydraulic and pneumatic pumps, actuators, valves, piping, hydraulic and pneumatic applications, the various types of hydraulic and pneumatic circuits, and how to troubleshoot these circuits.

Pre-reqs:

Or Test & Score: ACT Math - 19

Or Test & Score: Compass Algebra - 039

Or Test & Score: M091 Transfer Prof/Placement - 3

And Test & Score: M092 Transfer Prof/Placement - 3

MTH091

And MTH092

MST135 PLUMBNG AND PIPE CODE PRINCIPLE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Course concentrates on plumbing rules and regulations governing the installation of simple and complex plumbing systems with an emphasis on the specifications and regulations pertaining to joints, traps, clean-outs, water distribution, fixtures, and drainage.

Pre-reqs:



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MST136 3G WLDG CERT EXAM PREP

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course will study the fit-up and joining of various schedules of pipes in all positions. The plate will be jointed using SMAW, GMAW, and GTAW. The course will also cover weld defects and their causes. Heat Affected Zone and Fusion Zone will be discussed. Students will perform various destructive tests per American Petroleum Institute (API) and American Society of Mechanical Engineers (ASME) codes.

Pre-reqs:

MST127

And MST128

MST137 6G WLDG CERT EXAM PREP

Credit Hours: 5 Contact Hours: 6 Lecture Hours: 4 Lab Hours: 2 Other Hours: 0

This course will cover: the fit-up and welding of pipe in 5G and 6G positions (uphill) using the SMAW process, the welding of root and hot pass methods done with E-6010 electrodes, and the fill and cap pass using E-7018 electrodes. Students will perform destructive tests per American Society of Mechanical Engineers (ASME) Section IX Boiler and Pressure Vessel Code.

Pre-reqs:

MST127

And MST128

MST138 PREP GAS TUNGSTEN ARC WLDG

Credit Hours: 5 Contact Hours: 6 Lecture Hours: 4 Lab Hours: 2 Other Hours: 0

This lab course will provide the student with a technical understanding of gas tungsten arc welding, arc characteristics and welding safety procedures. In addition, the student will develop skills necessary to weld with pulsed current.

Pre-reqs:

MST127

And MST128



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MST139 GAS TUNGSTEN ARC WLDG TITAN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course provides the student with the knowledge and skill to weld with the gas tungsten arc welding process on stainless steel and titanium. This course provides the student with the opportunity to develop the manual skills necessary to produce high quality welds on 16 gage and .040 stainless steel and titanium, using DCEN.

Pre-reqs:

MST138

MST221 MECHANICAL DRIVE COMPON

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The study of bearings, shafts, couplings, cams, brakes, gear drives, belt drives, chain drives and clutches. Included are component application and maintenance.

Pre-reqs:

MST223 HYDRAULC AND PNEUMATC ELEC

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers the study of fluids, their properties, behavior and applications. Various hydraulic and pneumatic circuits, along with cycle charts and associated electrical circuits, are reviewed. Students are required to know components and their identification symbols and operations.

Pre-reqs:



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MST224 DIMENSIONAL METROLOGY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

An in-depth study of measuring principles, instruments and techniques. This course covers the measuring tools most commonly used in industry. Course covers how to read and use these instruments, how to prevent the most common errors and how to minimize errors.

Pre-reqs:

MST225 DC CRANE CONTROL

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course covers basic DC crane control including operator controls, DC motors, and relay control with an emphasis on maintenance troubleshooting using blueprints and schematics.

Pre-reqs:

MST226 TUNGSTEN INERT GAS WELD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Study of standard and programmable TIG welding equipment: welding of various metals such as aluminum, stainless steel, copper, and mild steel with considerations given to variables such as shielding gas types and sizes, and types of tungsten electrodes.

Pre-reqs:

And MST127

MST128



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MST227 METALLIC INERT GAS WELD

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Study of application and use of continuous consumable with electrode application and MIG welding equipment. Properties of gases with regard to flow and regulation in gas metal-arc. Welding techniques are studied in relation to welding steels and non-ferrous materials.

Pre-reqs:

MST127

And MST128

MST228 SHIELDED METAL ARC I

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Continuation of shielded ARC welding as it relates in vertical, overhead 45, and overhead positions, using E-6010 and E-7018 low hydrogen type electrodes.

Pre-reqs:

MST127

And MST128

PET101 INTRO TO THE PETROL INDUST

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an overview of the oil and natural gas industry. Topics covered include history of petroleum, basic geology, drilling, production, transportation, refining, gas processing, storage, environmental health and safety concerns and the economic and energy impact of petroleum products. Students will be required to complete the International Association of Drilling Contractors Rig Pass safety program with SafeLAND and SafeGULF endorsements.

Pre-reqs:



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PET102 INTRO TO SUP CTRL & DATA ACQ

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will familiarize the student with Supervisory Control and Data Acquisition (SCADA) systems. SCADA is a real-time communication and remote controlling system over a large geographic scale which allows for the collection of data during production, transmission or processing. The course will provide the knowledge to identify the various system components, redundant backup systems and recognize the benefits and limitations of a SCADA system. Students will be asked to sketch a SCADA system for an industry scenario.

Pre-reqs:

PET131 CORROSION BASICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides a basic understanding of the corrosion process, common corroding agents, methods of detecting and measuring corrosion and various methods of corrosion control. Special emphasis will be placed on cathodic protection. The course is designed to provide an introduction for technicians and operators who will deal regularly with corrosion.

Pre-reqs:

PET135 BASIC PIPELINE OPERATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will provide an overview of pipeline design, maintenance, and operations, including safety and regulatory compliance. Students will receive a basic understanding of pipeline economic importance, quality control and management.

Pre-reqs:

General Engineering



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General Engineering

PET141 Oil and Gas Lease Operations

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This class will provide an overview of lease operation methods utilized at producing petroleum well sites. Emphasis will be placed on recovery techniques, surface handling and treatment of reservoir fluids, surface equipment, preventative maintenance, measurement devices, and safety. Students will be responsible for analyzing charts and diagrams and calculating various flow volumes and pressures associated well operations.

Pre-reqs:

PET142 Artificial Lift

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is an overview of the latest procedures, practices, and equipment used in artificially lifting reservoir fluids. The class will describe hardware and operational issues associated with downhole and surface equipment. Rod pumping, gas lift, plunger lift and other related methods of artificial lift will be covered.

Pre-reqs:

Health and Human Services

Criminal Justice

CJS120 INTRO TO LAW ENFORCEMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and provides an overview of the American Criminal Justice system. Topics include the role of the peace officer, the court structure, ethics and professionalism, community policing, communicating with the public and the media, legal aspects of interviewing and interrogation, testifying in court and rules of evidence, the juvenile justice system, civil liability and use of force, and theories of criminal behavior.

Pre-reqs:



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Health and Human Services

Criminal Justice

CJS121 INTRO TO CRIMINAL JUSTICE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This introductory course provides an overview of the American criminal justice system, covering its three main components: policing, the courts, and corrections. Topics include historical development of the criminal justice system, theoretical explanations of criminal behavior; measuring crime statistics, strategies and models of law enforcement, criminal law and procedure, sentencing and punishment, and the juvenile justice system. TAG approved Spring 2012 OSS031.

Pre-reqs:

CJS122 CRIMINAL LAW AND PROCEDURES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on criminal law and criminal procedures for the law enforcement professional. Specific topics include the Ohio Revised Code, search and seizure, and arrest.

Pre-reqs:

CJS123 FIREARM TECHNIQUES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 0 Lab Hours: 4 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on firearm techniques. Specific topics include safety procedures, handgun and related equipment, shooting techniques, and shotgun training. CTAG approved Spring 2012 CTBPO.

Pre-reqs:



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Health and Human Services

Criminal Justice

CJS124 POLICING

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines the role of local, state, and federal law enforcement in American society. Topics include the structure and functions of police organizations; the historical development of policing; methodology; models of policing, including community policing; and current issues in law enforcement. TAG approved Spring 2012 OSS032.

Pre-reqs:

CJS121

CJS125 REPORT WRITING

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 0 Lab Hours: 1 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on report writing. Specific topics include general and investigative report writing. CTAG approved Spring 2012 CTBPO.

Pre-reqs:

CJS126 DEFENSIVE DRIVING

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on defensive driving. Specific topics include non-emergency driving, emergency driving, pursuit driving, and practical driving events. CTAG approved Spring 2012 CTBPO.

Pre-reqs:



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Criminal Justice

CJS127 SELF DEFENSE I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on self-defense. Specific topics include subject control techniques and physical conditioning. CTAG approved Spring 2012 CTBPO.

Pre-reqs:

CJS128 HUMAN RELATIONS I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on human relations. Specific topics include domestic violence, crisis intervention, missing persons, and victims' rights.

Pre-reqs:

CJS129 CORRECTIONS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines community and institutional corrections in the United States. Topics include the history and goals of punishment, supervised release, intermediate sanctions, institutional administration, and issues in corrections. TAG approved Spring 2012 OSS033.

Pre-reqs:

CJS121



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Criminal Justice

CJS140 LAW ENFORCEMENT ACADEMY I

Credit Hours: 8 Contact Hours: 14 Lecture Hours: 5 Lab Hours: 9 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum. The course provides an overview of the American criminal justice system and focuses on Ohio criminal law, criminal procedure for the law enforcement professional, general and investigative report writing, law enforcement driving techniques, and physical conditioning.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

CJS221 CRIMINOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines theories and patterns of criminal behavior. Topics include types and causes of crime, crime rates, and punishment. TAG approved Spring 2012 OSS034.

Pre-reqs:

CJS121

CJS222 CRIMINAL LAW IN THE US

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines criminal law in the U.S. Topics include the structure and functions of the legal system, the historical development of the criminal law, and elements of major crimes and defenses.

Pre-reqs:

CJS121



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Criminal Justice

CJS223 Criminal Procedure

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course examines criminal procedure and related concepts. Topics include the constitutional protections of the 4th, 5th and 6th amendments to the U.S. Constitution as well as the criminal justice process from arrest to conclusion.

Pre-reqs:

CJS121

CJS227 CRIMINAL JUSTICE PRACT AND SEM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 14 Other Hours: 0

The Practicum component of this course is an individual placement in a selected criminal justice agency for an educationally supervised learning experience. Students will complete 210 hours at the placement site. The Seminar component of this course is taught concurrently with the student's practical internship experience. The course will emphasize the integration of the practical learning experience with the student's academic coursework in criminal justice.

Pre-reqs:

CJS221

CJS230 PATROL ADMINISTRATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on patrol administration. Specific topics include patrol techniques, responding to crimes, gang awareness, communications and radio procedures, and prisoner booking and handling. CTAG approved Spring 2012 CTBPO.

Pre-reqs:



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Criminal Justice

CJS231 TRAFFIC ENFORCEMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on traffic enforcement. Specific topics include motor vehicle and commercial vehicle offenses, crash investigation and reporting procedures, fact gathering, collection of evidence, speed enforcement, and traffic control. CTAG approved Spring 2012 CTBPO.

Pre-reqs:

CJS232 CIV DISORDRS AND HOMELND SEC

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on civil disorders and homeland security. Specific topics include civil disorder and crowd control, hazardous material/weapons of mass destruction awareness, explosives, and terrorism awareness.

Pre-reqs:

CJS233 STANDARD FIRST AID

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on standard first aid practices and procedures. CTAG approved Spring 2012 CTBPO.

Pre-reqs:



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Criminal Justice

CJS234 CRIMINAL INVESTIGATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on criminal investigation. Specific topics include crime scene investigation, evidence collection, tracing stolen property, controlled substance awareness, confidential informants, line-ups, the elements of public order crimes, and officer safety and awareness.

Pre-reqs:

CJS235 SELF DEFENSE II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on physical conditioning, self-defense, and subject control techniques.

Pre-reqs:

CJS236 HUMAN RELATIONS II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum and focuses on human relations. Specific topics include interacting with special needs populations, crime prevention, and community diversity.

Pre-reqs:



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Health and Human Services

Criminal Justice

CJS240 LAW ENFORCEMENT ACADEMY II

Credit Hours: 8 Contact Hours: 22 Lecture Hours: 1 Lab Hours: 21 Other Hours: 0

This course is part of the Ohio Peace Officer's Basic Training curriculum. The course focuses on firearms training, patrol administration, traffic enforcement, criminal investigation, intermediate subject control techniques and physical conditioning, and human relations.

Pre-reqs:

CJS140

PLS121 INTRO TO PARALEGAL STUDIES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces students to the American legal system and the role of the paralegal within the criminal, civil, and administrative components of that system. Topics include the state and federal court systems, legal research and writing, computer technology in the law, alternative dispute resolution and litigation, legal terminology, ethical considerations and professional responsibility.

Pre-reqs:

PLS122 CIVIL LITIGATION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course introduces students to the rules of civil procedure, with emphasis on the Ohio Rules of Civil Procedure. Topics include pleadings, motion practice, discovery, trial preparation, and alternative dispute resolution, focusing on the role of the paralegal throughout the litigation process.

Pre-reqs:

PLS121



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PLS123 LEGAL ETHICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course explains the rules and standards of ethical and professional responsibility for both attorneys and paralegals, with emphasis on the Ohio Code of Professional responsibility and the corresponding duties of the paralegal. Topics include the competency, confidentiality, conflicts of interest, and the unauthorized practice of law.

Pre-reqs:

PLS121

PLS221 TORTS AND PERSONAL INJURY LAW

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on civil wrongs and their corresponding remedies, including the paralegal's roles and responsibilities in tort litigation. Topics include intentional torts, negligence, products liability, malpractice, strict liability, remedies and defenses to tort claims.

Pre-reqs:

PLS122

PLS222 FAMILY LAW

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on family law, with an emphasis on the paralegal's roles and responsibilities in family law cases. Topics include premarital agreements, divorce and dissolution, spousal support, child support, child custody, enforcement, and adoption.

Pre-reqs:

PLS121



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Criminal Justice

PLS223 Property and Probate Law

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on property law and probate administration, with an emphasis on the paralegal's roles and responsibilities in the areas of real estate practice and administration of decedent's estates, both testate and intestate. Topics include types of property ownership, conveyances and leases, surveys and title insurance, fiduciary appointment and duties, and determination of probate assets.

Pre-reqs:

PLS122

PLS224 CRIM LAW AND PROC FOR PARALGL

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on criminal law and criminal procedure, with an emphasis on the paralegal's roles and responsibilities in criminal cases. Topics include the structure and functions of the legal system, the historical development of the criminal law, the elements of major crimes and defenses, and relevant issues in criminal procedure.

Pre-reqs:

PLS121

PLS227 PARALEGAL STUDIES PRAC/SEM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

The Practicum component of this course is an individual placement in a selected legal agency or law firm for an educationally supervised learning experience. Students will complete 210 hours at the placement site. The Seminar component of this course is taught concurrently with the student's practical internship experience. The course will emphasize the integration of the practical learning experience with the student's academic coursework in paralegal studies.

Pre-reqs:

PLS221

Dental Hygiene



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Dental Hygiene

DAS121 DENTAL ASSISTING TECH I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The student will be introduced to the fundamentals of working in a dental office as a chairside assistant. Concepts and techniques of basic equipment, four-handed dentistry, oral evacuation, instrument identification, and proper use are discussed. Oral examination, charting, medical/dental histories, sterilization, and infection control procedures are emphasized.

Pre-reqs:

DAS122 DENTAL ASSISTING RADIOGRAPHY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course focuses on the principles of radiology, x-ray production, radiation safety, practices and hazards. Radiographic techniques, interpretation mounting and evaluation process are presented. Radiographic processing procedures, chemicals, and equipment are emphasized.

Pre-reqs:

DAS123 DENTAL ASSISTING TECH II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Builds on knowledge gained in DAS121. Health and Safety considerations for basic infection control, dental emergencies, common drugs used in dentistry, and oral disease processes are emphasized. Principles and skills of chairside assisting are further developed through demonstration and partner practice. Ethics and jurisprudence is also covered.

Pre-reqs:

DAS121

Can be Taken Concurrently



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Dental Hygiene

DAS124 DENTAL ASSISTING MATERIALS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course focuses on the physical and chemical properties of various materials used in the dental office. Emphasis is placed on manipulation and practical application of dental materials chair side and in the laboratory.

Pre-reqs:

DAS125 DENTAL ASSISTING SPECIALTY

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course offers the dental assisting student practical experience and knowledge in one of three common specialty areas.

Option A: Clinical Practice

This specialty option provides the student with an opportunity for practical application of dental principles and skills of basic qualified personnel.

Option B: Community Dentistry

This specialty option provides the student with an opportunity for advance knowledge and practice in preventative dental services and public health dentistry.

Option C: Administrative Dental Personnel

This specialty option is designed to provide the student with an opportunity to learn basic administrative and business procedures common in the dental practice.

Pre-reqs:

Although each student will select one major area of focus, it is expected that each student will gain knowledge of all major fields through discussion and clinical experience.

DAS123

DAS128 INTRO TO DENTAL TERM AND ANAT

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will introduce basic concepts in dental terminology and neck anatomy necessary for preparation for beginning technical study in expanded functions of dental auxiliary procedures. This course is useful for students who are not currently employees in a dental setting, who have not completed a post secondary dental assisting program or at least one year of an accredited dental hygiene curriculum.

Pre-reqs:



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Dental Hygiene

DAS225 Dental Morphology for EFDA

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will introduce EFDA students to the specific morphology associated with reproducing proper dental form and function during restorative dental procedures, while communicating appropriately with other dental professionals utilizing proper terminology.

Pre-reqs:

DAS226 EXPANDED DENTAL ASSISTING I

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course will cover basic concepts in head, neck and basic dental anatomy, terminology, tooth physiology/morphology to support the restorative dental auxiliary functions. Additional topics include laws and ethics, ergonomics, instrumentation/application techniques, isolation, occlusion, dental materials (including amalgam, resins, bases/liners, and intra-coronal temporary materials/ procedures).

Pre-reqs:

DAS227 EXPANDED DENTAL ASSISTING II

Credit Hours: 3 Contact Hours: 6 Lecture Hours: 0 Lab Hours: 6 Other Hours: 0

This course will serve to teach competency in the basic restorative procedures allowed to expanded function dental auxiliary candidates.

Pre-reqs:



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Dental Hygiene

DAS228 DIRECTED CLINICAL PRACTICE

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This course is a directive practice course, where under the supervision of a faculty dentist, expanded functions auxiliary students will provide restorative patient care as allowed by the EFDA certification. Students will be required to participate in onsite and offsite clinical rotations.

Pre-reqs:

DAS225

And DAS226

And DAS227

DHY121 HEAD/NECK AND ORAL ANATOMY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The course addresses gross anatomy of the head and neck, tooth morphology and physiology of occlusion.

Pre-reqs:

DHY122 ORAL HIST AND EMBRYOLOGY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Embryological development and histologic characteristics of the orofacial organs and structures is presented.

Pre-reqs:



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DHY123 DENTAL RADIOGRAPHY

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course is designed to introduce the student to fundamental knowledge of radiographic principles and safety considerations. Skill development in image production, mounting techniques and radiographic interpretation is emphasized.

Pre-reqs:

DHY124 PERIODONTICS I

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Introduction to the etiology, diagnosis, and prevention of diseases affecting the tissues that support, attach, and surround the teeth. Basic periodontic terminology and concepts utilized for dental hygiene care to include patient periodontal assessment and treatment modalities. Term and concepts applied in the clinical setting in DHY 133.

Pre-reqs:

DHY122

DHY125 DENTAL MATERIALS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

Course design covers fundamental knowledge of the dental materials commonly used in contemporary dental practice including their physical, chemical and manipulative characteristics. Skill development in correctly using these materials is emphasized.

Pre-reqs:

DHY131



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Dental Hygiene

DHY126 PATHOLOGY

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Diseases of development and growth including neoplasms, diseases of microbial origin, injury and repair, disturbances of metabolism and diseases of specific systems is presented.

Pre-reqs:

DHY122

DHY131 FUND DENTAL HYGIENE PRAC

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 2 Lab Hours: 6 Other Hours: 0

An introduction to dentistry, the dental hygiene profession, and ethical and professional patient care, terminology and basic skills utilized in the contemporary practice of dental hygiene, including infection control procedures and patient assessment and treatment are covered. Concepts are applied in a preclinical setting with manikins and student partners.

Pre-reqs:

DHY132 DENTAL HYGIENE THEORY I

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Builds upon fundamentals to provide further study of dental hygiene practices including, but not limited to, dental specialties, treatment planning and management of medical/dental emergencies.

Pre-reqs:

DHY131



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Dental Hygiene

DHY133 CLINICAL DENTAL HYG I

Credit Hours: 2 Contact Hours: 8 Lecture Hours: 0 Lab Hours: 8 Other Hours: 0

Supervised clinical patient care experiences which reinforce fundamentals, correlate with, and allow the application of, dental procedures and concepts presented in Dental Hygiene Theory I. Emphasis on application of basic skills and professionalism.

Pre-reqs:

And DHY123

DHY131

DHY134 CLINICAL DENTAL HYG IA

Credit Hours: 1 Contact Hours: 4 Lecture Hours: 0 Lab Hours: 4 Other Hours: 0

Supervised clinical patient care experiences which allow further development of clinical skills and application of concepts. Emphasis on patient management and effective communications.

Pre-reqs:

DHY133

DHY221 NUTRITION IN DENTISTRY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Basic concepts of nutrition and the effects on general as well as oral health are presented. The role of nutrition in dentistry for disease prevention and health promotion is emphasized. Dietary analysis and counseling methodologies are discussed and practiced.

Pre-reqs:

DHY132



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DHY222 DENTAL PHARMACOLOGY

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

General principles of drug regulation and prescribing, action and handling and adverse reactions is covered. Body systems, medical histories and their impact on drugs used in dentistry and their potential to alter dental treatment is discussed. Drugs used to manage medical emergencies are emphasized.

Pre-reqs:

BIO221

And DHY126

DHY223 Community Oral Health

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course focuses on program planning models, incorporation of research methods into program development and evaluation and offers practical application of community health concepts. Concepts of research design and methodology in community program planning are discussed. Learning experiences emphasize reading and reviewing scientific literature, understanding statistical reporting and the levels of public health prevention and administration. Assessing, planning, implementing and evaluating the oral health of various populations in a community setting are presented. Field experience required.

Pre-reqs:

DHY134

DHY224 PERIODONTICS II

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The fundamentals of periodontics are reinforced and clinical assessment, disease classification, and treatment options are discussed using clinical case applications. Surgical procedures are observed through a required field observation experience. Current advances in periodontal research and therapy is presented including oral-systemic connections.

Pre-reqs:

DHY124



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Dental Hygiene

DHY225 ANESTHESIA AND PAIN CONTROL

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 3 Other Hours: 0

This course will teach the basic concepts of anesthesia and pain control as they relate to patient management in the provision of comprehensive dental hygiene care. Lecture will focus on theory of pain control, selection of pain control modalities and implications of local anesthesia. Topics will utilize knowledge and review of anatomy, physiology and pharmacology. Lab includes competency based practice of the administration of pain control modalities.

Pre-reqs:

BIO122

And DHY121

And DHY132

DHY231 DENTAL HYGIENE THEORY II

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course is designed to further explore treatment modalities and dental hygiene services such oral hygiene indices, tobacco use and cessation education and supplemental care procedures. It focuses on the incorporation of all phases of assessment and the development of more complex dental hygiene treatment plans and case presentation focusing on individual patient care. Required lab activities performed in the clinical setting with manikins and student partners include ultrasonic/sonic instrumentation, air polishing, suture removal, periodontal dressing placement, and advanced instrumentation techniques.

Pre-reqs:

DHY132

DHY232 CLINICAL DENTAL HYG II

Credit Hours: 4 Contact Hours: 12 Lecture Hours: 0 Lab Hours: 12 Other Hours: 0

Supervised clinical patient care experiences which refine fundamentals, correlate with, and allow application of, dental hygiene procedures and lecture concepts presented in Dental Hygiene Theory II. Emphasis on total patient care and treatment planning, including judgment and decision-making. Off site clinical experiences required.

Pre-reqs:

DHY134



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Dental Hygiene

DHY233 DENTAL HYGIENE THEO III

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Further exploration of treatment modalities and adjunct procedures is covered. The course focuses on transitions to practice, including principles of office management, jurisprudence, ethics and current issues in dental hygiene.

Pre-reqs:

DHY231

DHY234 CLINICAL DENTAL HYG III

Credit Hours: 5 Contact Hours: 16 Lecture Hours: 0 Lab Hours: 16 Other Hours: 0

Supervised clinical patient care experiences that correlate with, and allow application of, dental hygiene procedures and lecture concepts presented in Dental Hygiene Theory III. Development of proficiency in implementing treatment plans to meet individual patient's oral health needs. Emphasis on self-evaluation and quality assurance.

Pre-reqs:

DHY232

Dietary Management

DMA121 SERVSAFE

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course provides 16 instruction hours on food safety training and certification, using the ServSafe program created by the National Restaurant Association Educational Foundation (NRAEF). This comprehensive course includes updates from the FDA Food Code, as well as new science-based and industry best practices relevant to state and local laws. There is a focus on the control of microorganisms, contamination, food allergens, food borne illness, and the safe food handler. ServSafe follows the flow of food from purchasing through service. This course also presents (Hazard Analysis of Critical Control Points) HACCP recipes, procedures and protocols. This course also includes food security, crisis management, and the active managerial program control. A ServSafe Food Protection Manager certificate and Ohio Department of Health ServSafe card is provided to students who pass the NRAEF certification exam.

Pre-reqs:



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Dietary Management

DMA122 SERVSAFE EXPERIENCE

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course provides off campus experience, in conjunction with (DMA126) Management of Food Service Operations for the Dietary Manager Experience, precepted by a Registered Dietitian, Registered Dietetic Technician or a Certified Dietary Manager. Students apply the concepts of food safety and sanitation to practical situations within the dietary management field.

Pre-reqs:

DMA123 NUTRITION MED NUTRITION THER

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides foundation knowledge of basic nutrition, plus extensive coverage of medical nutrition therapy. A sampling of the topics covered in this course include dysphasia, nutritional supplements, trans-fatty acids, medical diets, diabetic meal planning and carbohydrate counting, liberalization of diets in long-term care, Centers for Medicare & Medicaid Services (CMS) regulations, laboratory values and nutrition facts labeling, as well as many other critical care conditions..

Pre-reqs:

DMA124 NUTRITION MED NUTR THER EXP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 2 Lab Hours: 0 Other Hours: 1

This course provides Nutrition and Medical Nutrition Therapy (MNT) experience in an off-campus facility. This experience is integrated with the academic instruction of DMA 123, directly supervised by a registered Dietician, licensed in the state of Ohio. Students apply the concepts of Medical Nutrition Therapy to practical situations within the dietary management facility.

Pre-reqs:



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Dietary Management

DMA125 MFS OPER FOR DIETARY MGRS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is the study of food service systems management, including menu planning and evaluation, recipe development, purchasing, equipment, financial management, inventory controls and marketing. Applications of the management principles in food production, quality control, distribution and the physical facilities are studied.

Pre-reqs:

DMA126 MFS FOR DIETARY MGRS EXP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 2 Lab Hours: 0 Other Hours: 1

This course provides Foodservice Operations Management experience in an off-campus facility. This experience is intergrated with the academic instruction of DMA 125, directly supervised by a Registered Dietitian, a Registered Dietetic Technician or a Certified Dietary Manager

Pre-reqs:

DMA127 DIETARY OPERATIONS DELIVERY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Comprehensive systems approach of how to manage foodservice and dietary operations, efficiently and effectively, as they relate to the role and interactions of all departments involved in the total organization of a facility. The foodservice systems model is used as a guide to show managers how to transform all of the systems into outputs of meals, customer satisfactions, employee satisfaction and financial accountability. Additional coverage of sustainability, social responsibility and globalization related to dietary services is incorporated into the course materials.

Pre-reqs:



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Health and Human Services

Dietary Management

DMA128 DIETARY OPERATIONS DEL EXP

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 2 Lab Hours: 0 Other Hours: 1

This course provides off campus experience in a community facility or food service industry, integrated with academic instruction, precepted by a Registered Dietitian, Registered Dietetic Technician or a Certified Dietary Manager. Students apply the concepts of Human Resource Management to practical situations within the dietary management field.

Pre-reqs:

DMA131 FOODSRVCE I FOR THE DIET MANAG

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 3 Lab Hours: 5 Other Hours: 0

This course covers the study of food service systems management for the CDM (Certified Dietary Manager), including menu planning and evaluation, recipe development, purchasing, equipment, financial management, inventory controls and marketing. Management principle applications are taught for food production, quality control, distribution and physical facilities. The student will complete a minimum of 75 hours of directed practice in an approved facility to meet the required competencies of this course for preparation for the national certification examination.

Pre-reqs:

Or Test & Score: ACT Reading - 14

Or Test & Score: ACT Composite - 22

Or Test & Score: Compass Reading - 066

IDS102

And MTH091

And MTH092

DMA141 NUTR FOR THE DIETARY MANAGER

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 3 Lab Hours: 5 Other Hours: 0

This course provides foundation knowledge of basic nutrition, plus extensive coverage of Medical Nutrition Therapy (MNT) for the student desiring to become a CDM (Certified Dietary Manager). Examples of topics covered in this course include dysphasia, nutritional supplements, trans-fatty acids, medical diets, diabetic meal-planning and carbohydrate counting, liberalization of diets in long-term care, governmental regulations, laboratory values, and nutrition facts labeling, as well as many other critical care conditions. The student will learn the new coding procedures for the Nutrition section of MDS (Minimum Data Set) 3.0. In addition to the coursework, the student will complete 75 hours of directed practice within a designated facility that meets the required competencies for this nutrition rotation to enable the student to successfully pass the national certification examination.

Pre-reqs:

Or Test & Score: ACT Reading - 14



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Health and Human Services

Dietary Management

DMA141 NUTR FOR THE DIETARY MANAGER

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 3 Lab Hours: 5 Other Hours: 0

This course provides foundation knowledge of basic nutrition, plus extensive coverage of Medical Nutrition Therapy (MNT) for the student desiring to become a CDM (Certified Dietary Manager). Examples of topics covered in this course include dysphasia, nutritional supplements, trans-fatty acids, medical diets, diabetic meal-planning and carbohydrate counting, liberalization of diets in long-term care, governmental regulations, laboratory values, and nutrition facts labeling, as well as many other critical care conditions. The student will learn the new coding procedures for the Nutrition section of MDS (Minimum Data Set) 3.0. In addition to the coursework, the student will complete 75 hours of directed practice within a designated facility that meets the required competencies for this nutrition rotation to enable the student to successfully pass the national certification examination.

Pre-reqs:

Or Test & Score: ACT Composite - 22

Or Test & Score: Compass Reading - 066

IDS102

And ITD122

Can be Taken Concurrently

DMA151 FOODSRVCE II FOR THE DIET MANA

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 3 Lab Hours: 5 Other Hours: 0

Comprehensive systems approach for the CDM (Certified Dietary Manager) of how to manage foodservice and dietary operations, efficiently and effectively, as they relate to the role and interactions of all departments involved in the total organization of a facility. The 'foodservice systems model' is used as a guide to show managers how to transform all of the systems into outputs of meals, customer satisfactions, employee satisfaction and financial accountability. Additional coverage of sustainability, social responsibility and globalization related to dietary services is incorporated into the course materials. The student will complete 75 hours of directed practice in an approved facility to meet the required competencies of this course to enable the student to prepare for the national certification examination.

Pre-reqs:

DMA131

DTR121 FOOD SCIENCE PRINCIPLES

Credit Hours: 3 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

The interdisciplinary topics of food science and technology are covered, including: food biology and chemistry, food engineering and the physics of foods. The course also covers food commodities and the composition of food with an emphasis on the functional properties of food, as well as the food laws and regulations. The physical and chemical properties of food are examined during lab along with the area of sensory evaluation of food products and the development of food products. Processing methods are taught in lab with a correlation to microbiology and fermentation, food handling, safety, food contamination, HACCP principles and toxicology.

Pre-reqs:

CHM101



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Health and Human Services

Dietary Management

DTR122 LIFE CYCLE NUTRITION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Nutrition concerns, needs and issues over the entire life span from conception through life are covered in this course. The course materials focus on nutrition during pregnancy, infancy, childhood, adolescence and adulthood. Each life span section covers specialized concerns for that state.

Pre-reqs:

NTR121

DTR123 APPLIED NUTRITION

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course covers the basic application of nutrition assessment to all patients. It also involves the charting of medical records using the current Medical Nutrition Therapy terminology. Along with the process of assessment, the student will learn interviewing techniques and counseling strategies. Nutrition education is introduced using the food exchange lists, nutrition surveys, and the dietary standards.

Pre-reqs:

And DTR221

Can be Taken Concurrently

And DTR223

Can be Taken Concurrently

NTR121

DTR221 MEDICAL NUTRITION THERAPY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides advanced nutritional principles, including the mechanisms through which nutrients meet the human biological needs. The applications of the principles of nutrition as they relate to diet in disease with an emphasis on the effects of pathological conditions on nutritional needs are presented. The process of medical nutrition therapy is approached through the use of the 'Nutrition Care Process', as required by the Academy of Nutrition and Dietetics.

Pre-reqs:

And DTR123

Can be Taken Concurrently

And DTR223

Can be Taken Concurrently

NTR121



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Health and Human Services

Dietary Management

DTR223 NUTRITION/MNT DIRECTED PRACTIC

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 0 Other Hours: 2

Under the supervision of a registered/licensed dietitian, the student will complete 160 hours of directed practice in a clinical setting, within a 16 week semester. The student will shadow the dietitian and observe the Nutrition Care Process, including the process of nutrition assessment, diagnosis, intervention and evaluation and monitoring. During this rotation, the student will also review charts for medical record documentation, anthropometric data, food-drug interactions and the interpretation of laboratory values. The student will work with the dietitian in examining and participating in the role of the Dietetic Technician in the prevention and treatment of illness and chronic diseases. Applications of treatment will be observed in the management of diseases.

Pre-reqs:

DTR123

Can be Taken Concurrently

And DTR221

Can be Taken Concurrently

DTR224 CULTURAL NUTRITION

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course provides information on the health, culture, food and nutritional habits of most ethnic and racial groups living in the United States. Coverage of material will include the history, immigration, demographics, worldviews, religion, family structure, traditional beliefs and practices of each cultural group. Traditional and contemporary diets for each cultural group, along with the nutritional status of members of each group will be covered.

Pre-reqs:

DTR221

DTR225 COMMUNITY NUTRITION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is an introduction to the program planning, policies, resources, and nutrition issues specific to community nutrition. The student will also be provided with an understanding of creating and implementing nutrition programs for various life cycle stages.

Pre-reqs:

DTR221

And DTR226

Can be Taken Concurrently



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Health and Human Services

Dietary Management

DTR226 COMM NUTRITION DIR PRACTICE

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 0 Other Hours: 2

CATALOGUE DESCRIPTION: Under the supervision of a registered/licensed dietitian or other qualified preceptor, the student will complete 160 hours of directed practice in a community setting, within a 16 week semester. The student will shadow the dietitian or preceptor, using skills and knowledge learned in Community Nutrition (DTR226), Applied Nutrition (DTR123), Life Cycle Nutrition (DTR122) and Cultural Nutrition (DTR). Students will be placed in community settings, including schools, day cares, WIC, Head Start, Mobile Meals, Nursing Homes, Health Departments, YMCA/YWCA, Cooperative Extension Offices or other community settings.

Pre-reqs:

DTR225

Can be Taken Concurrently

DTR227 FOODSERVICE OPERATIONS I

Credit Hours: 3 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This is the first course that introduces the scientific and nutritional principles involved in food preparation including ingredient function, food composition, nutritional quality, terminology, equipment usage, preparation techniques and product evaluation. Quantity food production techniques and principles are introduced. Kitchen design and equipment selection is introduced in terms of usage with products. This course includes a lab section which includes menu costing and preparation, tools, and equipment used in quantity food preparation, 'Mise en place', basic principles of cooking, knife skills, stocks and soups, sauces, principles of all meat, poultry and fish cooking, and vegetables. Fruits, principles of bake shop, yeast breads, and plate presentation are also introduced. Students will also learn healthy cooking principles as required by the dietary guidelines, recipe and menu modification, allergies and understanding of altered textures and buffet presentation of quantity foods.

Pre-reqs:

And DMA121

Can be Taken Concurrently

DTR121

And DTR228

Can be Taken Concurrently

DTR228 DIETARY SYSTEMS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Comprehensive systems approach of how to manage foodservice and dietary operations, efficiently and effectively, as they relate to the role and interactions of all departments involved in the total organization of a facility. The foodservice systems model is used as a guide to show managers how to transform all of the systems into outputs of meals, customer satisfaction, employee satisfaction and financial accountability. Additional coverage of sustainability, social responsibility and globalization related to dietary services is incorporated into the course materials.

Pre-reqs:

DTR227

Can be Taken Concurrently



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Health and Human Services

Dietary Management

DTR229 PROFESSIONAL DIETETICS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Final course in the Dietetic Technician program that brings all of the issues of Dietetics together on a professional level: counseling skills, Nutrition Care Plans, team building, professionalism, ethics, management skills and current practices. Current research will be reviewed and analyzed. Review of the material for the registration examination.

Pre-reqs:

DTR228

DTR230 FOODSERVICE OPERATIONS II

Credit Hours: 3 Contact Hours: 7 Lecture Hours: 1 Lab Hours: 6 Other Hours: 0

This is the second course in introducing the scientific and nutritional principles involved in food preparation including ingredient function, food composition, nutritional quality, terminology, equipment usage, preparation techniques and product evaluation. Quantity food production techniques and principles are introduced. Kitchen design and equipment selection is introduced in terms of usage with products. This course includes a lab section which includes the preparation of dairy products, breakfast products, salads, grains, pasta and potatoes, sandwiches, bakeshop principles, cakes, custards, frozen desserts, and hors d'oeuvres. Students will also learn healthy cooking principles as required by the dietary guidelines, recipe and menu modification, allergies, an understanding of altered textures and buffet presentation of quantity foods.

Pre-reqs:

DTR227

And DTR231

Can be Taken Concurrently

DTR231 FOODSERVICE DIRECTED PRACTICE

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 0 Other Hours: 2

CATALOGUE DESCRIPTION: Under the supervision of a registered/licensed dietitian or other qualified preceptor, the student will complete 160 hours of directed practice in a foodservice setting, within a 16 week semester. The student will participate in all of the stations involved in foodservice in order to understand the workings of a kitchen. Preparation of all food items will be essential to this rotation. Working with the Foodservice Director, the student will apply knowledge learned from Foodservice Operations I (DTR227) and II (DTR230), as well as Dietary Systems (DTR228).

Pre-reqs:

DTR230

Can be Taken Concurrently



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Health and Human Services

Dietary Management

NTR121 BASIC MEDICAL NUTRITION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on the essentials of nutrition as required for health. The composition of foods, as well as the functions, sources and interactions of essential nutrients within the role of the human body's metabolic system are discussed. Assessment of nutritional health risks, along with health promotion and disease prevention is discussed. The influence of age, growth and normal development of the life stages are discussed in terms of the nutritional requirements. Methods of meeting dietary needs and sources of reliable nutritional information are addressed along with current nutritional issues and research.

Pre-reqs:

Or Test & Score: ACT Reading - 19

Or Test & Score: Compass Reading - 080

IDS102

Fire and EMS

EMS121 EMERGENCY MEDICAL TECHNICIAN

Credit Hours: 7 Contact Hours: 11 Lecture Hours: 5 Lab Hours: 6 Other Hours: 0

The Emergency Medical Technician (EMT) course provides theory and practical skills training for managing medical and traumatic situations at the EMT level and follows the objectives as listed in the Ohio Administrative Code. CTAG approved course CTEMTB002, effective Summer 2013.

Pre-reqs:

EMS122 PARAMEDIC I/SEMINAR

Credit Hours: 9 Contact Hours: 11 Lecture Hours: 8 Lab Hours: 3 Other Hours: 0

This course is first in a four-course sequence. Content in the sequence follows the objectives for paramedic education according to the Ohio Administrative Code 4765 and includes the knowledge and skills required to perform patient assessment and management of medical and traumatic emergencies by performing rapid assessment, interpretation of data, and advanced intervention, for patients of all ages from neonates to geriatrics. CTAG approved course CTEMTB004, effective Summer 2013.

Pre-reqs:

BIO101

And EMS121



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Fire and EMS

EMS124 PARAMEDIC I CLINICAL

Credit Hours: 2 Contact Hours: 12 Lecture Hours: 0 Lab Hours: 12 Other Hours: 0

This course is a co-requisite to Paramedic I, EMS122. It consists of the clinical and infield internship component related to the course content and skills completed in lab sessions during Paramedic I. CTAG approved course CTEMP004, effective Summer 2013.

Pre-reqs:

And BIO101

EMS121

And EMS122

Can be Taken Concurrently

EMS221 PARAMEDIC II/SEMINAR

Credit Hours: 9 Contact Hours: 11 Lecture Hours: 8 Lab Hours: 3 Other Hours: 0

This course is second in a four-course sequence. Content in the sequence follows the objectives for paramedic education according to the Ohio Administrative Code 4765 and includes the knowledge and skills required to perform patient assessment and management of medical and traumatic emergencies by performing rapid assessment, interpretation of data and advanced intervention, for patients of all ages from neonates to geriatrics. CTAG approved course CTEMP004, effective Summer 2013.

Pre-reqs:

EMS122

And EMS124

And EMS223

Can be Taken Concurrently

EMS222 PARAMEDIC III/SEMINAR

Credit Hours: 4 Contact Hours: 18 Lecture Hours: 6 Lab Hours: 12 Other Hours: 0

This course is third in a four-course sequence. Content in the sequence follows the objectives for paramedic education according to the Ohio Administrative Code 4765. This course places emphasis on team leadership in the clinical and infield setting. Infield internship is included. CTAG approved course CTEMP004, effective Summer 2013.

Pre-reqs:

EMS221

And EMS223



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Fire and EMS

EMS223 PARAMEDIC II CLINICAL

Credit Hours: 2 Contact Hours: 12 Lecture Hours: 0 Lab Hours: 12 Other Hours: 0

This course is a co-requisite to Paramedic II, EMS221. It consists of the clinical and infield internship component related to the course content and skills completed in lab sessions during Paramedic II. CTAG approved course CTEMP004, effective Summer 2013.

Pre-reqs:

EMS122

And EMS124

And EMS221

Can be Taken Concurrently

EMS224 PARAMEDIC IV

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

This course is fourth in a four-course sequence. Content in the sequence follows the objectives for paramedic education according to the Ohio Administrative Code 4765 and includes the knowledge and skills required to perform patient assessment and management of medical and traumatic emergencies by performing rapid assessment, interpretation of data and advanced intervention, for patients of all ages from neonates to geriatrics. Preparation for certification testing is included. CTAG approved course CTEMP004, effective Summer 2013.

Pre-reqs:

EMS222

FST128 VOLUNTEER FIREFIGHTER

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0.5 Lab Hours: 1.5 Other Hours: 0

Pre-reqs:



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Fire and EMS

FST129 FIREFIGHTER 1

Credit Hours: 6 Contact Hours: 10 Lecture Hours: 4 Lab Hours: 6 Other Hours: 0

This course meets the requirement in the Ohio Revised Code regarding the certification of Firefighter level 1. Instruction includes topic areas taken from NFPA 1001 Fire Fighter 1. This course can be used as the first step in a two-step process in becoming a Firefighter trained to Firefighter level 2. Successful completion of this course is required to take the state certification test at Firefighter level 1. CTAG approved CTFFI002, effective Summer 2013.

Pre-reqs:

FST224 LGL ASPECTS OF FIRE SERV

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

The focus of this course is on the legal rights, duties, liability concerns and responsibilities of the fire department while carrying out its function. Courtroom presentations, procedures and case studies will be included.

Pre-reqs:

FST228 FIREFIGHTER 1 & 2

Credit Hours: 11 Contact Hours: 17 Lecture Hours: 8 Lab Hours: 9 Other Hours: 0

This course meets the requirement in the Ohio Revised Code regarding the certification of a full-time paid Firefighter. Instruction includes topic areas taken from NFPA 1001 Firefighter 1 and 2. This is the highest level of Firefighter certification offered in the State of Ohio. Successful completion of this course is required to take the state certification test at Firefighter level 2. CTAG approved CTFFII003, effective Summer 2013.

Pre-reqs:



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Fire and EMS

FST229 FIREFIGHTER TRANSITION

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 4 Lab Hours: 3 Other Hours: 0

This course meets the requirement in the Ohio Revised Code regarding the certification of a level 1 Firefighter. Instruction includes topic areas taken from NFPA 1001 Firefighter 1. This course can be used as the second step in a two-step process in becoming a Firefighter trained to the Firefighter level 1. Successful completion of this course is required to take the state certification test at Firefighter level 1. A student must have a volunteer level Firefighter certification to register for this course.

Pre-reqs:

FST128

FST230 FIREFIGHTER 2

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 4 Lab Hours: 3 Other Hours: 0

This course meets the requirement in the Ohio Revised Code regarding the certification of level 2 Firefighter. Instruction includes topic areas taken from NFPA 1001 Fire Fighter 2. This course can be used as the second step in a two-step process in becoming a Firefighter trained to the Firefighter level 2. Successful completion of this course is required to take the state certification test at Firefighter level 2. A student must have a Firefighter level 1 certification to register for this course.

Pre-reqs:

Or FST128

FST129

And FST229

General Health

HTH121 INTRO TO HEALTH CAREERS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

The course is an introduction to the health care delivery system and the associated career opportunities within it. The course provides the student with the opportunity to explore career choices including educational, occupational, and professional requirements, employer expectations, job outlooks and related industry trends.

Pre-reqs:

Health Information



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Health and Human Services

Health Information

HIT121 HTLH DATA MGT AND DELIVRY SYSM

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 2 Lab Hours: 4 Other Hours: 0

Organization of health care delivery in the United States including providers and professionals; role of government and external agencies; accreditation and regulatory requirements and issues; structure and function of the American Health Information Management Association; the functions of an HIM department; emphasis on the content and structure of health records and documentation requirements; introduction to electronic health records and use of HIM application software.

Pre-reqs:

HIT123

Can be Taken Concurrently

HIT122 ALTERNATIVE HLTH RECS AND REGST

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Structure and function of non-acute healthcare facilities; accreditation and regulatory requirements; reimbursement and funding; content and structure of health records and documentation requirements; information management and the role of the HIM professional; overview of health registries with emphasis on cancer registry; students will spend observation time in a non-acute healthcare setting.

Pre-reqs:

HIT121

HIT123 HLTHCRE LEGAL AND ETHICAL ISS

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Legal aspects of health information management practice; overview of judicial system and processes; importance of the health record as a confidential and legal document; practice in the release of information function; record retention and destruction of records are studied; current legal issues, compliance, privacy and security; professional and practice related ethical issues and laws are discussed. TAG approved Spring 2012 OHL021.

Pre-reqs:

Or HIT121

Can be Taken Concurrently

HIT230



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Health Information

HIT124 CLINICAL CLASSIFICATNS SYS I

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 2 Lab Hours: 4 Other Hours: 0

ICD coding systems and the professional standards for coding and reporting diagnostic inpatient and outpatient services and inpatient procedure services; coding characteristics, conventions and guidelines will be applied in identifying and accurately assigning codes; manual and electronic applications and coding references will be utilized in the coding process; study of various nomenclature and classification systems used in the healthcare field.

Pre-reqs:

And BIO124

Can be Taken Concurrently

HIT121

HIT221 CLINICAL CLASSIFICATNS SYS II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

CPT-4/HCPCS coding system and its application in coding procedures; applying coding guidelines with accuracy and completeness using manual and computerized encoding systems; applying coding guidelines of previously learned coding principles; review of the outpatient prospective payment system.

Pre-reqs:

BIO222

And HIT124

HIT222 HLTHCRE STATSTICS AND RESEARCH

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Collection, organization, analysis and presentation of healthcare data; vital and public health statistics; computation and interpretation of healthcare statistics; data retrieval of clinical information from specialized databases; abstracting and maintaining data; importance of data quality and validity; reviewing Institutional Review Board processes.

Pre-reqs:

HIT122

And HIT124

And HIT224

Can be Taken Concurrently



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Health Information

HIT223 HIM SUPERVSN:CONCPTS AND PRACT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Introduction to the concepts and practices of management and the role of the supervisor as it relates to the Health Information Management department; strategic planning and developing goals and objectives; importance of leadership and working in teams; orientation and training; monitoring resources and budgeting; study of practical problems in supervision.

Pre-reqs:

HIT224

HIT224 QUALITY MGT IN HEALTHCARE

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Components of quality management in healthcare including quality assessment and improvement; utilization review; risk management and credentialing; use of quality improvement tools and techniques to assess, monitor, and report performance improvement activities; accreditation and regulatory requirements; outcome measures and patient safety.

Pre-reqs:

HIT222

Can be Taken Concurrently

HIT226 PROFESSIONAL PR I/SEM I

Credit Hours: 2 Contact Hours: 8 Lecture Hours: 1 Lab Hours: 7 Other Hours: 0

Supervised professional practice experience in a healthcare facility which is designed to allow students to apply HIM technical knowledge and skills learned in the classroom. Students complete additional assignments and meet in seminar to discuss the HIM profession and share practicum experiences.

Pre-reqs:



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Health Information

HIT227 PROFESSIONAL PR II/SEMII

Credit Hours: 2 Contact Hours: 8 Lecture Hours: 1 Lab Hours: 7 Other Hours: 0

Supervised professional practice experience in a healthcare facility which is designed to allow students to apply advanced HIM technical knowledge and skills learned in the classroom. Students complete additional assignments and meet in seminar to discuss issues and trends in the healthcare field which impact HIM practice; career management strategies and preparing for the national RHIT examination.

Pre-reqs:

HIT229 HLTH INFO SYSTEMS AND TECH

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Use of information technology in healthcare; computer concepts, communication and network technology; data quality and databases; data security; planning, evaluation and selection of information systems; HIM specialty systems, healthcare information systems; emerging technologies; emphasis on the electronic health record.

Pre-reqs:

Or CIS126

Or ECA180

HIT224

And ITD122

HIT230 HLTH CARE DELIVERY IN THE US

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course focuses on the structure and process of health care in the United States. Topics include the historical development of the health care delivery system; types of facilities, services, agencies and personnel that constitute the system, critical policy and regulatory issues the system confronts; health care financing and reimbursement; and the role of government in health care.

Pre-reqs:



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Health Information

HIT231 VIRTUAL PROF. PRAC LAB

Credit Hours: 1 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 3 Other Hours: 0

The on-campus coding lab allows the student to apply previously learned coding skills in a simulated workplace setting; under direction of coding experts in the field, the student will practice technical, research and auditing skills while building accuracy and speed; coding a variety of authentic paper, electronic and hybrid records, using electronic applications and work processes.

Pre-reqs:

HIT124

HIT232 HLTHCRE REIMBURSEMENT METHODOL

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Healthcare reimbursement methodologies in health care settings; healthcare insurance plans and reimbursement systems; applying methodologies such as DRG's, APC's, RBRVS, etc.; the billing process as it relates to health information management; charge master, revenue cycle management; coding compliance and data quality. TAG approved OHL022 effective Autumn 2010.

Pre-reqs:

HIT124

HIT233 CLINICAL CLASSIFICATION SYS III

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 3 Other Hours: 0

Applying coding guidelines of previously learned coding principles through advanced coding practices with accuracy and completeness, using manual and computerized encoding systems; clinical coding and applying reimbursement methodologies; health information management; coding compliance and data quality.

Pre-reqs:

HIT124

Human Services



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Human Services

CDC121 CHEM DEP:ASSESSMT AND TRTMT PL

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides specific content in orientation, screening, intake, assessment, treatment planning, and counseling with adults and adolescents with substance abuse/dependency disorders. Topics include: culturally sensitive practices in interviewing and assessment, diagnosis of substance abuse/dependency disorders, diverse models of treatment, case management, crisis intervention, and referral to appropriate levels of care. Other topics include discharge planning, relapse prevention, confidentiality, and roles of mutual self-help groups.

Pre-reqs:

SWK121

And SWK125

CDC122 FUND OF CHEM DEP PRACT I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides students with an understanding of theories and practices in the field of chemical dependency. Students learn to integrate theories with practical application to serve persons with abuse and dependency diagnoses. They develop knowledge of the different frameworks for viewing chemical dependency and determine the models that develop from the frameworks and effective use of the models. They continue to develop knowledge of how different drugs impact individuals. Students learn to document interventions and outcomes.

Pre-reqs:

SWK125

CDC221 CHEM DEPENDNCY AND THE FAM

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an overview of how chemical dependency impacts individual family members and the family unit. The course emphasizes how to define co-dependency and treatment of family members. Students explore developmental aspects of the family, family roles, and the ways in which addiction alters family functioning. Students are exposed to a variety of family treatment models as well as 12-Step/mutual self-help programs for family members. Students are required to attend one 12-Step meeting for families with addicted members and complete a related assignment.

Pre-reqs:

SWK125



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CDC222 FUND OF CHEM DEP PRACT II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides students with advanced individual and group strategies to match the needs of clients. Students develop knowledge to evaluate the effectiveness of treatment based upon the client's progress towards mutually agreed upon goals. Students learn to develop a continuum of recovery plan in order to strengthen the client's potential for obtaining and maintaining a healthy lifestyle. Students develop knowledge and skills to work effectively with specific populations such as women, adolescents, and persons with co-occurring disorders.

Pre-reqs:

CDC122

CDC223 CHEMICAL DEPENDENCY AND PREVNT

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course provides specific content in preventing and delaying the onset of alcohol and other addictive substance use, abuse, and dependency. Students learn prevention strategies and programs that help individuals, families, and communities promote safe and healthy behavior and lifestyles.

Pre-reqs:

SWK125

CDC224 CHEMICAL DEPENDENCY AND ETHICS

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course provides students with specific content in the legal and ethical issues pertaining to chemical dependency counseling. Students develop skills related to obligations and procedures that encourage ethical conduct. Students use The State of Ohio Code of Ethics for Chemical Dependency Counselors as a guide for professional behavior. Topics include: responsibility to comply with The Code of Ethics, ethical complaints, sanctions, and impairment of chemical dependency counselors. Students develop skills in recognizing and finding solutions for ethical dilemmas.

Pre-reqs:

SWK125



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Human Services

CDC231 CHEM DEPEND PRACT & SEM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 14 Other Hours: 0

This course provides the student with the clinical experience in an agency that offers services to persons with substance abuse/dependency disorders and adheres to the practice of the 12-core functions of a chemical dependency counselor. The student participates primarily in assisting with screening, orientation, assessment, counseling, case management, record keeping, crisis intervention, and identifying areas for referral. Students provide a variety of community support services related to substance abuse/dependency. Students are required to attend a weekly seminar to process the clinical experience.

Pre-reqs:

And CDC222

SWK224

SWK121 INTRO TO SOCIAL WELFARE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an overview of the social welfare system spanning the last two hundred years. The dynamics of the various social, political, and philosophical ideas are examined as they have affected the social welfare system in the United States and social work as a profession. Students become familiar with the structure and function of current social service delivery systems. Students are required to volunteer for 15 hours in a social service setting and complete required documentation. Students are required to complete a background check during the semester in which the class is taken. TAG OSS030 approved Spring 2012.

Pre-reqs:

Or Test & Score: ACT Reading - 14

Or Test & Score: ACT Composite - 22

Or Test & Score: Compass Reading - 066

IDS102

SWK124 METHODS IN PRACTICE I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Fosters development of focused and group interviewing skills and examines principles and practices relating to the entire case management process. Assessment and documentation cover a diverse range of professional human and social service settings, emphasizing compliance to professional and governmental standards.

Pre-reqs:

SWK121



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Health and Human Services

Human Services

SWK125 SUBSTANCE ABUSE

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides students with an understanding of the impact of alcohol and drugs on American society and the role of the social service professional in educating, supporting and assisting clients with treatment options/resources. Topics include common stereotypes, myths, attitudes, interventions, treatment options and co-dependency. To successfully complete this course, students are required to attend two (2) 12-step meetings and complete the written assignments related to the meetings.

Pre-reqs:

- Or Test & Score: ACT Reading - 14
 - Or Test & Score: ACT Composite - 22
 - Or Test & Score: Compass Reading - 066
- IDS102

SWK126 HUMAN BEHAVIOR & SOC ENV

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides a comprehensive study of human behavior from a life span perspective. A systems approach is used with special attention to the role of the social service professional and the social service system.

Pre-reqs:

- Or Test & Score: ACT Reading - 14
 - Or Test & Score: ACT Composite - 22
 - Or Test & Score: Compass Reading - 066
- IDS102

SWK127 GROUP PROCESSES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Group theory, structure and interaction are explored, with emphasis on personal insight into how the individual is affected by and influences the group process. Facilitation of team-building, group life stages and factors that impede/enhance group effectiveness are examined. An experiential format requires application of course principles to group activities.

Pre-reqs:



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SWK130 METHODS IN PRACTICE II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on the assessment and documentation processes practiced in a diverse range of human and social services settings. Students will apply the theory and practice skills from Methods I through exercises using focused and group interviewing skills. Students will apply documentation skills using traditional written case notes and computer based formats.

Pre-reqs:

SWK124

SWK224 POVERTY IN THE US

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An examination of the historical, social, cultural, organizational and political factors related to poverty in the U.S. and their impact on social service programs. Social and personal dimensions of life and poverty in urban and rural areas will be explored.

Pre-reqs:

And ENG124

SWK121

SWK225 VICTIM AND CRISIS INTERVENTION

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Course provides students with the basic understanding of victimization and theories and practice of intervention. Issues such as risk factors, legal issues, and intervention strategies of child abuse, spousal abuse, elder abuse and co-dependency will be introduced.

Pre-reqs:

ENG124



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Human Services

SWK226 SOCIAL SERVICE LAW

Credit Hours: 3 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 0 Other Hours: 3

This course provides comparisons of the theoretical basis of social work and law. Basic terminology, principles, organization and procedures of law will be explored along with the relationships of the two professions-law and social work.

Pre-reqs:

SWK230 SOCIAL SERV FOR ELDERLY

Credit Hours: 3 Contact Hours: 13 Lecture Hours: 3 Lab Hours: 0 Other Hours: 10

This course provides information on national, state, and local social services that meet the needs of the elderly, their families, their communities and the institutions serving them and their families. Includes an examination of current societal policy and programs to meet the needs of the elderly and a basic orientation to the roles of various personnel in agencies. Students are required to complete 10 observation hours in settings that serve the elderly.

Pre-reqs:

ENG124

SWK231 HUMAN & SOCIAL SERVICE PRAC/SEM

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

A 210-hour, supervised experience working in selected Human and Social Services agencies. Open only to Human and Social Service majors. Weekly seminar participation required.

Pre-reqs:

And SWK130

SWK224

Massage Therapy



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Health and Human Services

Massage Therapy

MAS121 MASSAGE THERAPY I

Credit Hours: 6 Contact Hours: 8 Lecture Hours: 4 Lab Hours: 4 Other Hours: 0

This course introduces students to Massage Therapy as a health care profession. Studied are the history and benefits of Massage Therapy and Massage procedures necessary to complete a full-body, therapeutic massage. Laboratory exercises permit students to practice the individual movements that make up a full-body massage.

Pre-reqs:

MAS122 MASSAGE THERAPY II

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 3 Other Hours: 0

This course is a continuation of Massage Therapy I. Students continue to practice procedures necessary to complete a full-body therapeutic massage with an introduction to clinical applications. Students perform massage in a supervised, clinical setting.

Pre-reqs:

MAS121

And MAS123

MAS123 MASSAGE THERAPY A & P I

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Guided study of Anatomy and Physiology with an emphasis on massage therapy specific information. Origin, insertion, innervation and actions of up to two hundred muscles.

Pre-reqs:



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Massage Therapy

MAS124 MASSAGE THERAPY A & P II

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

General study of Anatomy and Physiology with an emphasis on massage specific information. Eleven basic systems will be studied and correlated with specific disorders. These disorders will be discussed relative to how they would affect the work of a massage therapist. Treatment of the disorders will also be discussed

Pre-reqs:

And BIO122

Can be Taken Concurrently

MAS123

MAS223 MASSAGE THERAPY REVIEW

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course contains a review of human anatomy and physiology in preparation for the licensing exam for Massage Therapy as a Limited Medical Practice in the State of Ohio.

Pre-reqs:

BIO122

Or BIO123

And MAS226

Can be Taken Concurrently

MAS224 MASSAGE THERAPY III

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 3 Other Hours: 0

In this course the students continue to study the practice of Massage Therapy in both a general and clinical setting.

Pre-reqs:

MAS122



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Massage Therapy

MAS225 MASSAGE THERAPY IV

Credit Hours: 2 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 3 Other Hours: 0

In this course students continue to study the practice of Massage Therapy in both a general and clinical setting.

Pre-reqs:

MAS224

MAS226 MASSAGE THERAPY V

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

In this course, students will examine various Massage Therapy Practices in the clinical setting. Massage procedures from various disciplines will be used in the study of treatment of systemic and musculoskeletal dysfunctions. This course also provides a licensing exam review for Massage Therapy as a Limited Medical Practice in the State of Ohio.

Pre-reqs:

MAS124

And MAS225

MAS227 MASSAGE THERAPY PROCEDURES

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Students will learn procedures to evaluate applicability of massage therapy to a variety of conditions, treatment of those conditions and the integrating of those skills into a medically oriented office. SOAP notes, record keeping for therapeutic applications and insurance billing will be taught. Ethical issues related to Massage Therapy will also be discussed.

Pre-reqs:

MAS121



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Health and Human Services

Massage Therapy

MAS228 PROFESSIONAL PRACTICE & EVALUATION

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Application of massage therapy skills to course instructor in order to demonstrate minimally acceptable competency followed by a comprehensive evaluation of student performance by course instructor.

Pre-reqs:

MAS122

MAS229 CLINIC OPERATIONS

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course permits the student to apply learned skills to the clinical setting. Students will perform intake and assessment of clients based on subjective and objective information and physical assessment determining indications and contraindications for application of massage therapy. Students will design and implement treatment plans and document treatments in SOAP notes. Students will learn the skills necessary to manage a professional practice. Examination of the therapeutic relationship between the massage professional and the client will also be covered.

Pre-reqs:

MAS225

MAS230 LTD Branch Massage Therapy Rev

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The course contains a review of Massage Therapy related content in preparation for the Massage and Bodywork Licensing Exam (MBLEx). Upon successful completion of this course, students will be eligible to take MBLEx and upon successful passage of the exam, students will be able to apply for licensure with the State Medical Board of Ohio (SMBO).

Pre-reqs:



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Massage Therapy

MAS231 Sports Massage

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course will present a unique focus on the use of basic sports massage, myofascial, neuromuscular and lymphatic facilitation to enhance an athlete's performance potential and treat common athletic injuries and conditions.

Pre-reqs:

MAS121

Medical Assisting

MAT121 MEDICAL ASSISTING I

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

Medical Assisting I introduces the students to the profession of Medical Assisting and their responsibilities in the clinical area of the health care facility. Emphasis is placed on communication skills and the clinical techniques employed by the medical assistant. Pathophysiology and medications are presented as related procedures. Electronic Health Records will be implemented throughout the course.

Pre-reqs:

MAT122 MEDICAL ASSISTING II

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

Medical Assisting II focuses on performing and assisting with advanced clinical skills, EKG monitoring, and patient communication and education. Proper documentation of clinical procedures is covered using electronic medical records. Pathophysiology is presented as related to the procedures. Electronic Health Records will be implemented throughout the course.

Pre-reqs:

MAT121



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Medical Assisting

MAT123 MEDICAL ASSISTING III

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The "Total Concept of Patient Care" simulation gives Medical Assisting students the opportunity to incorporate and use their acquired knowledge of clinical and administrative procedures in health care delivery while working and managing a simulated clinic. The clinic is a structured and controlled OSHA/CLIA compliant environment, simulating a medical office, for the sole purpose of integrating skills and preparing the student for a practicum experience in a clinical facility.

Pre-reqs:

MAT122

MAT124 MEDICAL LAW AND ETHICS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will focus on developing an understanding of ethics and various points of view on current ethical issues. Students will learn and discuss how legal issues are applied to the medical office.

Pre-reqs:

MAT221 MED LAB PROC FOR MED ASSTG

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

This course introduces the student to basic medical laboratory techniques used in the physician's office. Our lab is run in compliance with OSHA/CLIA standards. Laboratory tests taught represent all departments of a clinical lab and include spirometry and EKG. Electronic Health Records will be implemented throughout the course.

Pre-reqs:

MAT122



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Medical Assisting

MAT222 INSURANCE FOR MEDICAL ASSISTNG

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on developing knowledge of private, government and managed care insurances. Students will learn to code and complete electronic claim forms from CPT and ICD codebooks. Students will learn basic bookkeeping terminology, and post payments from Remittance Advice forms. This course covers risk management for reimbursement issues, following up on unpaid claims, and appealing disallowed claims. Electronic Health Records will be implemented in the course.

Pre-reqs:

MAT122

MAT223 MEDICAL OFFICE PROCEDURES

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Pre-reqs:

MAT224 PHARMACOLOGY/MEDICATIONS

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This course focuses on specific drug classifications including the action and usage with direct relationship to diseases and disorders; mathematical units of measure and dosage calculations; methods for preparing and administering oral, intramuscular, subcutaneous, and intradermal medications used in the physician's office; and managing the office drug inventory. Pathophysiology is presented as related to medications. Electronic Health Records will be implemented throughout this course.

Pre-reqs:

MAT122



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Medical Assisting

MAT225 EMERGENCY MEDICAL PROCEDURES

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course is designed to enable students to become certified in American Red Cross Professional Rescuer and Standard First Aid. In addition, supplementary information is presented covering manual resuscitation with Ambu bags, administering oxygen, crash carts, and incident reports. Study of the disease process is integrated with illnesses, injuries, and treatment covered in the course.

Pre-reqs:

MAT122

MAT226 MEDICAL OFFICE MANAGEMENT

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course focuses on creating a Policy and Procedure Manual that includes management principles, policies and procedures, financial management, marketing the practice, human relations and safety and disaster plans.

Pre-reqs:

MAT122

MAT227 MEDICAL ASSISTING PRACTICUM

Credit Hours: 2 Contact Hours: 12 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

The student is placed in a medical facility for 210 hours of practical application of all skills learned in the classroom and for additional instruction in the actual operation and management of the health care facility. The student works under the close observation and supervision of the physician and office staff.

Pre-reqs:

MAT123

Can be Taken Concurrently



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Health and Human Services

Medical Assisting

MAT228 OPTHALMOLOGY I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Focuses on anatomy and physiology of the eye; disease pathology, including systemic diseases with ocular manifestation; introduction to optics; pharmacology and microbiology; ocular emergencies and medical care; ophthalmic office procedures; medicolegal aspects of care; and preliminary workup for the ophthalmology patient.

Pre-reqs:

MAT121

MAT229 OPTHALMOLOGY II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Focuses on visual field testing; ocular motility; contact lenses, including insertion and removal instruction, care of, advantages and disadvantages of soft and rigid contacts; instrument maintenance and calibration; glaucoma and tonometry, including medical, surgical and laser treatment methods; and clinical optics. Forty hours of clinical externship are required in the ophthalmology office to apply ophthalmology skills, to receive credit for the ophthalmology course, and to receive a certificate of completion.

Pre-reqs:

MAT228

MAT231 REIMBURSEMENT FR HLTH CARE SER

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course is designed to introduce students to health care reimbursement. Content covers insurance terminology, legal considerations, third party guidelines, reimbursement methods and managed care reimbursement. It also includes an overview of national insurance plans and coding issues that affect reimbursement. There will also be emphasis on tracking and follow-up of processed claims.

Pre-reqs:



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Health and Human Services

Medical Assisting

MAT233 MEDICAL ASSISTING SEMINAR

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course will teach students how to prepare resumes, cover letters and how to interview for employment. Students will also prepare for the practicum.

Pre-reqs:

MAT123

Can be Taken Concurrently

MAT234 INTRODUCTION TO PHLEBOTOMY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on phlebotomy and microcapillary puncture skills, collection/handling of specimens, quality assurance, infection control, safety and law and ethics. CTAG CTP001

Pre-reqs:

Or Test & Score: Compass Reading - 080

IDS102

MAT235 PHLEBOTOMY TECH PRACTICUM

Credit Hours: 1 Contact Hours: 7 Lecture Hours: 0 Lab Hours: 7 Other Hours: 0

Students will have a supervised non-paid practicum at a health care facility which is designed to allow the student to gain experience in drawing blood on actual patients. The student works under the close observation and supervision of the clinical site supervisor; students will complete a daily journal while at their practicum.

Pre-reqs:

MAT234

Medical Lab



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Medical Lab

MLT121 FUNDAMENTALS OF LAB TECH

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to expose the student to basic skills and techniques used in the clinical laboratory. Topics to include: lab safety, lab units of measurement and calculations, preparation of solutions, care and use of lab equipment, pipetting and concepts of quality control. Phlebotomy, obtaining blood specimens by venipuncture and skin puncture is part of this course. TAG approved course- OHL008 effective Spring 2007.

Pre-reqs:

MLT122 URINALYSIS AND BODY FLUIDS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

Course is structured to expose the student to the analysis of urine by macroscopic, chemical and microscopic techniques to determine the presence of soluble, insoluble substances and their relationship to disease. The class uses urine specimens, prepared slides and case histories. Course introduces topics of information, composition, and function of synovial, cerebrospinal, serous, amniotic, and seminal fluids. Course will describe the methods used in the routine analysis of these fluids, along with correlation of results with normal and disease states. TAG OHL010 approved Spring 2012.

Pre-reqs:

MLT124

MLT123 HEMATOLOGY I

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course covers basic hematological procedures. Topics include automated and manual blood cell counting techniques, red cell indices and morphology, reticulocyte counts, total eosinophil counts, platelet counts, erythrocyte sedimentation rates, normal white blood cell differentials and abnormal white blood cell differentials by using unknown blood samples, prepared abnormal slides, kodachromes and case histories. Also, reinforcement of venipuncture and finger stick techniques. Course will introduce the basic principles of hemostasis (coagulation) and the tests used to screen for disorders of hemostasis. TAG OHL009 approved Spring 2012. Must complete MLT123 & MLT124 to obtain TAG approval.

Pre-reqs:



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Medical Lab

MLT124 HEMATOLOGY II

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

Course is designed to reinforce hematological techniques previously learned by the student in Hematology I. Emphasis is placed on white blood cell differentials with blood cell morphology and associated disease states. Other topics, with clinical application, include: cerebral spinal fluid cell counts, sickle-cell preps, the leukemias, infectious mononucleosis and other blood dyscrasias by prepared microscopic slide collection, kodachromes and case histories, and coagulation studies. TAG OHL009 approved Spring 2012. Must complete MLT123 & MLT124 to obtain TAG approval.

Pre-reqs:

MLT123

MLT125 IMMUNOHEMATOLOGY

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

This course introduces the concepts of basic genetics of red cell antigens. The student will study the significance of the blood cell antigens and antibodies. The course includes ABO and Rh typing, crossmatching procedures, antibody detection and identification. A study of hemolytic disease of the newborn, its treatment and detection is included. Other topics in the course are composition and use of the specific blood component, overview of donor requirements.

Pre-reqs:

MLT126

MLT126 IMMUNOLOGY/SEROLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The course introduces the immune system and the concepts of the immunologic response in health and in disease, as well as how serologic techniques are used in the clinical laboratory testing. Topics include the cells and components involved in the immune response, which will include the immunoglobulins and complement system. Abnormal immune responses such as hypersensitivity and autoimmunity and their clinical significance will be discussed. Common serologic techniques which utilize antigen-antibody reactions for diagnostic testing are presented. The laboratory activities will include dilutions, agglutination, and other antigen-antibody serologic techniques.

Pre-reqs:



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Health and Human Services

Medical Lab

MLT222 CLINICAL CHEMISTRY

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

The course is designed to introduce the student to the principles of laboratory instrumentation, clinical chemistry procedures and quality control concepts. The course covers renal and liver function; carbohydrate, lipid and protein metabolism; hormones; electrolytes and mineral balance; blood gases; and clinical enzymes and therapeutic drug monitoring. The class uses lecture, case studies and laboratory procedures.

Pre-reqs:

BIO122

Or BIO123

And CHM122

And MLT121

And MLT122

MLT223 CLINICAL MICROBIOLOGY

Credit Hours: 7 Contact Hours: 10 Lecture Hours: 4 Lab Hours: 6 Other Hours: 0

The student will study the morphology and identification of microorganisms commonly found in humans, their relationship to disease states and their susceptibility to antibiotics. Topics include: basic structures and functions of bacteria; culture, growth and development requirements; classification of microbes; infectious disease; control of disease; laboratory safety; unknowns for identification from ATCC (American Type Culture Collection) seeded cultures; videotapes and kodachromes. Other topics include mycology, parasitology and virology.

Pre-reqs:

BIO221

And MLT126

MLT225 MLT APPLICATIONS

Credit Hours: 3 Contact Hours: 9 Lecture Hours: 0 Lab Hours: 9 Other Hours: 0

Under supervision of MLT Program faculty, the student has the opportunity to practice the manual procedures from the previous MLT courses. In preparation for the affiliated hospital experience, the student will organize his/her daily workload to maximize productivity and attain competence in the manual methods. Emphasis is placed on manual hematology, normal and abnormal blood smears, routine urinalysis, body fluid cell counts and cytopins, routine serology, blood banking using tube and gel techniques.

Pre-reqs:

And MLT125

And MLT222

MLT223



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Medical Lab

MLT226 MLT DIRECTED PRACTICE

Credit Hours: 6 Contact Hours: 30 Lecture Hours: 0 Lab Hours: 30 Other Hours: 0

Students are assigned to an affiliated clinical laboratory and have the opportunity to perform clinical laboratory testing using modern equipment, under the supervision of a practicing laboratorian. Students rotate through the main laboratory departments which include: hematology and hemostasis, blood bank, microbiology, chemistry. Experiences include operating and maintaining sophisticated laboratory analyzers, evaluation of test results, refining phlebotomy skills, interaction with the clinical laboratory staff, with other health care professionals, and with the patient.

Pre-reqs:

MLT225

Can be Taken Concurrently

And MLT227

Can be Taken Concurrently

MLT227 MLT SEMINAR

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Topics include professional development, creating resumes and cover letters, discussions of experiences at the clinical sites, discussions of problems that occur in the workplace and problem resolution. The topics of the certification process, professional ethics in the laboratory, and other related topics are included.

Pre-reqs:

MLT223

And MLT225

Can be Taken Concurrently

And MLT226

Can be Taken Concurrently

Nursing

HTD201 HLTH INDEP STUDY

Credit Hours: 1 Contact Hours: 10 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Health Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Health Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:



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Nursing

HTD202 HLTH INDEP STUDY

Credit Hours: 2 Contact Hours: 20 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Health Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Health Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:

HTD203 HLTH INDEP STUDY

Credit Hours: 3 Contact Hours: 30 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Health Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Health Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:

HTD204 HLTH INDEP STUDY

Credit Hours: 4 Contact Hours: 40 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

An independent study may be arranged through the Health Technology Division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for Health Technology will determine course content, meeting schedules and credit hours.

Pre-reqs:



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Nursing

NSG100 Fund Concepts Lifespan Lecture

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides an overview of fundamental concepts important to the practice of nursing including those related to patient-centered nursing, the healthcare environment and professional nursing practice. Includes care of patients with a focus on wellness and health promotion. Application of knowledge and skills occurs in the nursing laboratories and clinical settings. Students must register for the lab and clinical co-requisites and successfully complete all components.

Pre-reqs:

And NSG100C

Can be Taken Concurrently

NSG100L

Can be Taken Concurrently

And NSG101

Can be Taken Concurrently

NSG100C Fund Concept Lifespan Clinical

Credit Hours: 2 Contact Hours: 6 Lecture Hours: 0 Lab Hours: 6 Other Hours: 0

This course provides an overview of fundamental concepts important to the practice of nursing including those related to patient-centered nursing, the healthcare environment and professional nursing practice. Includes care of patients with a focus on wellness and health promotion. Application of knowledge and skills occurs in the nursing laboratories and clinical settings. Students must register for the lab and lecture co-requisites and successfully complete all components.

Pre-reqs:

NSG100

Can be Taken Concurrently

And NSG100L

Can be Taken Concurrently

And NSG101

Can be Taken Concurrently

NSG100L Fund Concepts Lifespan Lab

Credit Hours: 1 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 3 Other Hours: 0

This course provides an overview of fundamental concepts important to the practice of nursing including those related to patient-centered nursing, the healthcare environment and professional nursing practice. Includes care of patients with a focus on wellness and health promotion. Application of knowledge and skills occurs in the nursing laboratories and clinical settings. Students must register for the lecture and clinical co-requisites and successfully complete all components.

Pre-reqs:

NSG100

Can be Taken Concurrently

And NSG100C

Can be Taken Concurrently

And NSG101

Can be Taken Concurrently



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Health and Human Services

Nursing

NSG101 Clinical Reason Curr Practice

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course introduces the learner to clinical reasoning used in nursing. In this course the student learns to use critical thinking skills and strategies that underscore the thinking represented in the nursing process as well as dealing with aspects of the healthcare system for safe practice in the current healthcare environment. This course forms the basis for the thinking processes applied throughout all nursing courses.

Pre-reqs:

NSG100	Can be Taken Concurrently
And NSG100C	Can be Taken Concurrently
And NSG101L	Can be Taken Concurrently
Or NSG122	Can be Taken Concurrently
And NSG122C	Can be Taken Concurrently
And NSG122L	Can be Taken Concurrently
Or NSG123	Can be Taken Concurrently
And NSG123C	Can be Taken Concurrently
And NSG123L	Can be Taken Concurrently

NSG121 Concept Nur Care Adult Patient

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course builds on fundamentals for the acquisition and application of concepts of nursing applied to the care of patients experiencing uncomplicated conditions with a focus on wellness. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings. Students must register for the lab and clinical co-requisites and successfully complete all components.

Pre-reqs:

And BIO121	
Or BIO123	
And NSG100	
And NSG100C	
And NSG100L	
And NSG101	
And NSG121C	Can be Taken Concurrently
NSG121L	Can be Taken Concurrently



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Health and Human Services

Nursing

NSG121C Concept Nur Care Adult Clinic

Credit Hours: 1.5 Contact Hours: 4.5 Lecture Hours: 0 Lab Hours: 4.5 Other Hours: 0

This course builds on fundamentals for the acquisition and application of concepts of nursing applied to the care of patients experiencing uncomplicated conditions with a focus on wellness. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings. Students must register for the lab and lecture co-requisites and successfully complete all components.

Pre-reqs:

And BIO121

Or BIO123

And NSG100

And NSG100C

And NSG100L

And NSG101

NSG121

Can be Taken Concurrently

And NSG121L

Can be Taken Concurrently

NSG121L Concept Nur Adult Patient Lab

Credit Hours: 0.5 Contact Hours: 1.5 Lecture Hours: 0 Lab Hours: 1.5 Other Hours: 0

This course builds on fundamentals for the acquisition and application of concepts of nursing applied to the care of patients experiencing uncomplicated conditions with a focus on wellness. Application of knowledge and skills occurs in the nursing laboratories and a variety of clinical settings. Students must register for the lecture and clinical co-requisites and successfully complete all components.

Pre-reqs:

And BIO121

Or BIO123

And NSG100

And NSG100C

And NSG100L

And NSG101

NSG121

Can be Taken Concurrently

And NSG121C

Can be Taken Concurrently



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Health and Human Services

Nursing

NSG141 Concept Patient Mental Lecture

Credit Hours: 1.5 Contact Hours: 1.5 Lecture Hours: 1.5 Lab Hours: 0 Other Hours: 0

This course builds on the first semester courses to further refine the concepts of nursing practice with application to the care of patients with conditions related to mental health issues. Application of knowledge and skills occurs in the nursing laboratories and a variety of mental health facilities. Students must register for the lab and clinical co-requisites and successfully complete all components.

Pre-reqs:

And BIO121

Or BIO123

And NSG100

And NSG100C

And NSG100L

Or NSG122

And NSG122C

And NSG122L

Or NSG123

And NSG123C

And NSG123L

And NSG141C

Can be Taken Concurrently

NSG141L

Can be Taken Concurrently

NSG141C Concept Patient Mental Clinic

Credit Hours: 1 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 3 Other Hours: 0

This course builds on the first semester courses to further refine the concepts of nursing practice with application to the care of patients with conditions related to mental health issues. Application of knowledge and skills occurs in the nursing laboratories and a variety of mental health facilities. Students must register for the lab and lecture co-requisites and successfully complete all components.

Pre-reqs:

And BIO121

Or BIO123

And NSG100

And NSG100C

And NSG100L

Or NSG122

And NSG122C



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Health and Human Services

Nursing

NSG141C Concept Patient Mental Clinic

Credit Hours: 1 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 3 Other Hours: 0

This course builds on the first semester courses to further refine the concepts of nursing practice with application to the care of patients with conditions related to mental health issues. Application of knowledge and skills occurs in the nursing laboratories and a variety of mental health facilities. Students must register for the lab and lecture co-requisites and successfully complete all components.

Pre-reqs:

And NSG122L

Or NSG123

And NSG123C

And NSG123L

NSG141

Can be Taken Concurrently

And NSG141L

Can be Taken Concurrently

NSG141L Concept Patient Mental Lab

Credit Hours: 0.5 Contact Hours: 1.5 Lecture Hours: 0 Lab Hours: 1.5 Other Hours: 0

This course builds on the first semester courses to further refine the concepts of nursing practice with application to the care of patients with conditions related to mental health issues. Application of knowledge and skills occurs in the nursing laboratories and a variety of mental health facilities. Students must register for the lecture and clinical co-requisites and successfully complete all components.

Pre-reqs:

And BIO121

Or BIO123

And NSG100

And NSG100C

And NSG100L

Or NSG122

And NSG122C

And NSG122L

Or NSG123

And NSG123C

And NSG123L

NSG141

Can be Taken Concurrently

And NSG141C

Can be Taken Concurrently



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Health and Human Services

Nursing

NUR121 FUND CONCEPTS IN NURSING

Credit Hours: 6 Contact Hours: 12 Lecture Hours: 3 Lab Hours: 9 Other Hours: 0

This course introduces concepts basic to nursing with an emphasis on the nursing process and assessment skills. Technical nursing skills to maintain, restore, and/or promote basic health care are presented. The health care needs of the older adult are examined. Content also includes an explanation of the historical perspectives of nursing as it impacts on the present associate degree nurse as a member within the profession of nursing and the health care delivery system. Select legal, ethical and social issues affecting nursing are addressed. CTAG CTADNUR002 approved Spring 2012.

Pre-reqs:

Occupational Therapy

OTA121 FOUNDATIONS OF OT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Explains the profession of occupational therapy, the roles and functions of occupational therapy personnel, the areas of occupational performances and the theoretical basis of using goal-directed activities. Observation in local occupational therapy clinics is scheduled.

Pre-reqs:

OTA122 THERAPEUTIC MEDIA

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Skill development in selected activities, screening and assessments with the emphasis on psychosocial, pediatric and geriatric performance use of equipment, individual and small group teaching, analysis of activities, use of O.T. Frames of Reference and O.T. Frameworks.

Pre-reqs:



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Health and Human Services

Occupational Therapy

OTA123 PSYCHOSOCIAL ASPECTS OF OT

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Introduction to various health-promoting and inhibiting factors as they relate to occupational therapy practice. Provide training related to one-on-one and group treatment for individuals with psychiatric and/or social impairments. Emphasis on utilizing therapeutic use of self, adapted activities, and the environment as the primary means of promoting psychological well-being and enhancing occupational performance.

Pre-reqs:

OTA121

And OTA122

And PSY121

And PSY221

Can be Taken Concurrently

OTA124 PSYCHOSOCIAL CLINICAL EX

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 2 Other Hours: 1

Skill development in group processes and didactic interactions. Supervised work experience and interactions with persons who have psychological dysfunctions.

Pre-reqs:

OTA121

And OTA122

OTA221 DEVELOP ASPECTS IN OT

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Identification and description of handicapping conditions existing from birth or through adulthood. Instruction in occupational therapy theories and treatment for individuals with developmental and learning impairments. Emphasis on therapeutic techniques to enhance occupational performance from birth through adulthood.

Pre-reqs:

Or BIO122

And BIO123

OTA123

And OTA124

And OTA223

Can be Taken Concurrently



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Health and Human Services

Occupational Therapy

OTA221 DEVELOP ASPECTS IN OT

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Identification and description of handicapping conditions existing from birth or through adulthood. Instruction in occupational therapy theories and treatment for individuals with developmental and learning impairments. Emphasis on therapeutic techniques to enhance occupational performance from birth through adulthood.

Pre-reqs:

And PTA226

Can be Taken Concurrently

OTA222 DEV CLINICAL EXPERIENCE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 2 Other Hours: 1

Training of transfer techniques, range of motion, inhibition and facilitating techniques. Training in the use of self-maintenance skills and assistive devices. Supervised work experience in a school, hospital or workshop servicing clients with developmental disabilities.

Pre-reqs:

Or BIO122

BIO123

And OTA123

And OTA124

And OTA223

Can be Taken Concurrently

And PTA226

Can be Taken Concurrently

OTA223 LIFE SPAN DEVELOPMENT

Credit Hours: 5 Contact Hours: 5 Lecture Hours: 5 Lab Hours: 0 Other Hours: 0

The study of human growth and development from birth through old age. Focus is on a multi-theoretical approach defining organic and environmental determinants of illness vs. wellness. Students explore therapeutic treatment implications related to application of developmental principles in working with various patient populations.

Pre-reqs:

ENG124



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Health and Human Services

Occupational Therapy

OTA224 OT IN PHYSICAL DYSFUN

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

Instruction in occupational therapy theories, assessment and screening and treatment for individuals and physical impairments and high risk medical conditions. Emphasis on use of therapeutic activities to restore, maintain and/or facilitate physical well-being and independence.

Pre-reqs:

And BIO124

Can be Taken Concurrently

OTA221

And OTA222

OTA225 PHYS DYSFUNCTION CLINIC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 1 Lab Hours: 2 Other Hours: 1

Skill development in selected activities with emphasis on work simplification, fabrication of orthotics and routine evaluation procedures. Supervised work experience in a hospital or clinic setting treating individuals with neurological, orthopedic and other medical conditions.

Pre-reqs:

And OTA221

OTA222

OTA226 OT ASST SEMINAR

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Examination and discussion of the professional roles and responsibilities of the occupational therapy assistant. Includes exploration of traditional and non-traditional roles, certification, conflict resolution, collaboration of OTR and COTA, ethics and legal aspects of treatment.

Pre-reqs:

OTA224

And OTA225



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Occupational Therapy

OTA227 CLINICAL APPLICATIONS I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 3

Supervised field work placement designed to provide in-depth experience in and responsibility for delivery of services to patients/clients. Emphasizes the application of academically-acquired knowledge leading to the performance level expected of an entry-level occupational therapy assistant.

Pre-reqs:

OTA224

And OTA225

OTA228 CLINICAL APPLICATIONS II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 3

Supervised field work placement designed to provide in-depth experience and responsibility for delivery of services to patients/clients. Emphasizes the application of academically-acquired knowledge leading to the performance level expected of an entry-level occupational therapy assistant.

Pre-reqs:

OTA224

And OTA225

Physical Therapy

PTA121 FUNDAMENTALS OF PT

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

The student is introduced to the field of physical therapy, basic standards of practice, current professional issues and interactions with patients and other health professionals. The student is instructed in monitoring vital signs, infection control procedures, principles of body mechanics, patient positioning and draping, transfer techniques, range of motion, girth measurements, therapeutic massage and selected conditions and treatments. Laboratory activities, written assignments, and competencies are required components of this course.

Pre-reqs:



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Physical Therapy

PTA122 MUSCULOSKELTAL ANATOMY

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

An in-depth study of the musculoskeletal system including: anatomical terms, bone and bony landmark locations; articulations; skeletal muscle locations and actions; the actions and planes of movement available at the joints; and the types of muscle contractions which can occur at the synovial joints. A basic study of skin is presented. Laboratory activities, cadaver studies and practicals are a required component of this course.

Pre-reqs:

Or BIO122

Can be Taken Concurrently

BIO123

Can be Taken Concurrently

PTA123 KINESIOLOGY

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

The study of human anatomy emphasizing the biomechanics, motion and peripheral innervations of the musculoskeletal system as a basis for understanding normal and abnormal function and the development of exercise and gait programs. The fundamentals of posture, muscle physiology, muscle function, gait analysis and strength will be covered. Students will review muscle locations and actions, as well as locations and functions of selected ligaments, the intrinsic muscles of the hands and feet, and the innervations of the muscles of the extremities. Laboratory activities, cadaver studies and practicals are a required component of this course.

Pre-reqs:

PHY101

And PTA122

And PTA221

Can be Taken Concurrently

PTA124 MST PROCEDURES FOR PTA

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

The student will learn data collecting and documentation for therapeutic measurement skills including goniometry and manual muscle testing.

Pre-reqs:

PTA123

And PTA221



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Physical Therapy

PTA125 PROF CLIN PRACT FOR PTA

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course will focus on development of the professional clinical skills including critical thinking and clinical decision-making. The students will apply didactic concepts learned in Fundamentals of Physical Therapy and PTA Procedures I to clinical situations.

Pre-reqs:

PTA123

And PTA221

PTA221 PTA PROCEDURES I

Credit Hours: 5 Contact Hours: 9 Lecture Hours: 3 Lab Hours: 6 Other Hours: 0

This course will present to the students a comprehensive study of pain and its management; a study of the impairments, disabilities and functional limitations associated with burns, tissue repair, and pulmonary conditions; principles of physical agents/modalities usage including rationale, effects, adverse effects, contraindications, precautions, application, and documentation. Laboratory activities, written assignments, and competencies are required components of this course. Student may perform selected therapeutic interventions with patients under direct PT/PTA supervision as part of the laboratory components of this course.

Pre-reqs:

PTA121

And PTA122

And PTA123

Can be Taken Concurrently

PTA222 PTA PROCEDURES II

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

This course will present to the students the impairments, disabilities, functional limitations, and interventions of selected musculoskeletal, rheumatological and cardiovascular conditions including spinal disorders and amputation. Also included, will be an overview of CNS anatomy, physiology, and pathology, sensory integration, motor development and motor control. Laboratory activities, written assignments and competencies, are required components of this course. Students will perform selected therapeutic interventions with patients under direct PT/PTA supervision as part of laboratory component of this course.

Pre-reqs:

And BIO124

PTA124

And PTA125

And PTA228

Can be Taken Concurrently

And PTA229

Can be Taken Concurrently



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Physical Therapy

PTA223 PTA PROCEDURES III

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course will present to the students the impairments, disabilities, functional limitations, and interventions of selected neuromuscular disorders and will include, but not limited to spinal cord injuries, traumatic brain injuries, strokes, and developmental disabilities. Laboratory activities, written assignments, and competencies are required components of this course. Students will perform selected therapeutic interventions under direct PT/PTA supervision as part of the laboratory component of this course.

Pre-reqs:

PTA224

And PTA225

PTA224 PTA PROCEDURES II ORTHO

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course presents the impairments, disabilities, functional limitations, data collection and therapeutic interventions of selected orthopedic, integumentary, rheumatological and cardiovascular conditions. Also included is study of the anatomy, physiology and pathology of the selected conditions. Laboratory activities, written assignments and competencies are required components of this course. Students will perform selected data collection and interventions as a part of this course.

Pre-reqs:

And BIO124

PTA124

And PTA125

And PTA225

Can be Taken Concurrently

And PTA228

Can be Taken Concurrently

And PTA229

Can be Taken Concurrently

PTA225 PTA PROCEDURES II NEURO

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course presents the impairments, disabilities, functional limitations, data collection and therapeutic interventions of selected cardiovascular, integumentary, neurological, developmental, and traumatic conditions. Also included is study of the anatomy, physiology and pathology of the selected conditions. Laboratory activities, written assignments and competencies are required components of this course. Students will perform selected data collection and interventions as a part of this course.

Pre-reqs:

And BIO124

PTA124

And PTA125



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Physical Therapy

PTA225 PTA PROCEDURES II NEURO

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course presents the impairments, disabilities, functional limitations, data collection and therapeutic interventions of selected cardiovascular, integumentary, neurological, developmental, and traumatic conditions. Also included is study of the anatomy, physiology and pathology of the selected conditions. Laboratory activities, written assignments and competencies are required components of this course. Students will perform selected data collection and interventions as a part of this course.

Pre-reqs:

And PTA224

Can be Taken Concurrently

And PTA228

Can be Taken Concurrently

And PTA229

Can be Taken Concurrently

PTA226 FUNCTIONAL ANATOMY

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

An in-depth study of the musculoskeletal system with particular attention paid to the movement of joints, motions of the spine and extremities, as well as prime movers involved in these motions. Application of the knowledge of human anatomy with emphasis on biomechanics and functions relative to the neuromusculo-skeletal system. Motion of the human body is studied as a basis for therapeutic exercise and function.

Pre-reqs:

Or BIO122

BIO123

PTA227 DIRECTED PRACTICE III

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 3

Selected clinical experience in various physical therapy settings under direct supervision. Grading: Credit/Fail

Pre-reqs:



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Physical Therapy

PTA228 SEMINAR I

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

Presentation of topics related to clinical practice to include ethics and professional development.

Pre-reqs:

PTA124

And PTA125

And PTA224

Can be Taken Concurrently

And PTA225

Can be Taken Concurrently

And PTA229

Can be Taken Concurrently

PTA229 DIRECTED PRACTICE I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 0 Other Hours: 3

Clinical experience in various physical therapy departments under direct supervision. Grading: Credit/Fail

Pre-reqs:

PTA124

And PTA125

And PTA224

Can be Taken Concurrently

And PTA225

Can be Taken Concurrently

And PTA228

Can be Taken Concurrently

PTA230 SEMINAR II

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Presentation of diverse clinical issues and approaches to patient management.

Pre-reqs:

PTA224



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Physical Therapy

PTA230 SEMINAR II

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

Presentation of diverse clinical issues and approaches to patient management.

Pre-reqs:

And PTA225

And PTA228

And PTA229

PTA231 DIRECTED PRACTICE II

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 0 Other Hours: 2

Clinical experience in various physical therapy departments under direct supervision. Grading: Credit/Fail

Pre-reqs:

PTA229

Respiratory Therapy/MIST

MIS123 INTRO TO SURGICAL TERM/MCROBIO

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course provides the student with an exposure to terms specific to the field of central service/medical instrument sterilization with special emphasis on surgical terminology and microbiology pertinent to the surgical arena. Emphasis is placed on understanding the relationships between medical products and instruments, how they are used, and the factors in disease transmission that compromise surgical patient outcomes.

Pre-reqs:

MIS124



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Health and Human Services

Respiratory Therapy/MIST

MIS124 MEDICAL INSTR STERILIZATION I

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 0 Lab Hours: 0 Other Hours: 0

This course presents the student with an overview of the technical functions of the field of central processing/medical instrument sterilization and its application to hospital/surgical center environments. Topics include orientation to the work environment, decontamination procedures, infection control, disinfection, surgical instrumentation and standards of practice.

Pre-reqs:

BIO101

Can be Taken Concurrently

MIS125 MIS I/DIRECTED PRACTICE

Credit Hours: 2 Contact Hours: 10 Lecture Hours: 0 Lab Hours: 10 Other Hours: 0

This course provides the student the technical competency skills in identification of surgical implementation, standards of practice, decontamination procedures, infection control, and disinfection. This directed practice orients the student to the work environment in the central service processing area of the hospital/surgery center.

Pre-reqs:

And BIO125

Can be Taken Concurrently

MIS124

Can be Taken Concurrently

MIS126 MEDICAL INSTR STERILIZATION II

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course presents the student with an exposure to the technical functions of the field of central service processing/medical instrument sterilization with emphasis on surgical instrumentation, assembly of instruments, sterilization procedures, standards of practice, operations, inventory, distribution and product standardization.

Pre-reqs:

MIS124



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Respiratory Therapy/MIST

MIS127 MIS II/DIRECTED PRACTICE

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 0 Lab Hours: 15 Other Hours: 0

This course provides the student the technical competency skills in sterilization procedures, assembly of instruments, standards of practice, operations, inventory, distribution and product standardization. Students gain technical skills through exposure to the central service processing area in a hospital/surgery center.

Pre-reqs:

MIS125

And MIS126

Can be Taken Concurrently

MIS222 Medical Inst Sterilization III

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

This course reinforces the technical functions of the field of central service processing/medical instrument sterilization with the review of decontamination, assembly, sterilization, distribution and storage. Other topics include credentialing exam preparation and job readiness skills.

Pre-reqs:

MIS123

And MIS126

MIS223 MIS III/Directed Practice

Credit Hours: 1 Contact Hours: 5 Lecture Hours: 0 Lab Hours: 5 Other Hours: 0

This course reinforces the technical competency skills in decontamination, assembly, sterilization, distribution and storage. Students will demonstrate competency by working more independently in the central service processing area in a hospital/surgery center.

Pre-reqs:

MIS127

And MIS222

Can be Taken Concurrently



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Respiratory Therapy/MIST

RCT121 INTRO TO RC PROCEDURES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introduction to the field of respiratory care: the job functions of the respiratory therapy profession; orientation to charting techniques; patient positioning; vital sign assessment; cleaning and sterilization; isolation techniques; and other procedures required for entry into the hospital setting.

Pre-reqs:

BIO123

RCT122 MED GAS ADMINISTRATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introduction to the basics of oxygen administration, aerosol and humidification therapy.

Pre-reqs:

RCT123 AIRWAY MANAGEMENT PROCED

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introduction to the therapeutic and diagnostic modalities used in the treatment and assessment of pulmonary diseases to include: aerosol therapy, hyperinflation techniques, bronchial hygiene, airway clearance techniques, arterial punctures, and basic respiratory monitoring.

Pre-reqs:

RCT124



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Respiratory Therapy/MIST

RCT124 PHARMACOLOGY FOR RT

Credit Hours: 2 Contact Hours: 2 Lecture Hours: 2 Lab Hours: 0 Other Hours: 0

An orientation to pharmacology including drug classifications, dosage calculations, indications, side effects, and administration. Emphasis is placed on those drugs used in the treatment and management of cardiopulmonary disease including: bronchodilators, mucolytics, steroids, anti-infective agents, smoking cessation aids, central nervous system and cardiac medications and other miscellaneous drugs.

Pre-reqs:

RCT125 CLINICAL PRACTICUM I/SEMINAR

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

Clinical experiences provided include an introduction to basic patient care skills such as: medical asepsis, vital sign monitoring, charting procedures, isolation, and resuscitation. Also included are experiences in medical gas administration, aerosol therapy, and hyperinflation and bronchial hygiene techniques. The seminar component consists of an introduction of arterial blood gas interpretation and quality control of arterial blood gas sampling.

Pre-reqs:

RCT124

RCT126 CRITICAL CARE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introduction of the principles related to the care of the critically ill patient with an emphasis on mechanical ventilation.

Pre-reqs:

RCT129



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Respiratory Therapy/MIST

RCT128 CLINICAL PRACTICUM II/SEMINAR

Credit Hours: 2 Contact Hours: 8 Lecture Hours: 1 Lab Hours: 0 Other Hours: 7

Clinical experiences are provided in the area of airway management, aerosol therapy, hyperinflation and bronchial hygiene techniques, arterial punctures, and tracheobronchial suctioning. The seminar component consists of pulmonary function testing and quality control.

Pre-reqs:

RCT125

RCT129 RESPIRATORY DISEASES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A review of diseases affecting the patients that are encountered by the respiratory care practitioner. Included is the physical assessment and evaluation of the patient with respiratory complications.

Pre-reqs:

RCT124

RCT220 CARDIOPULMONARY A & P

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An orientation to the anatomy and physiology of the respiratory and cardiac systems.

Pre-reqs:

RCT126



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Respiratory Therapy/MIST

RCT223 PATIENT ASSMNST AND MONITOR

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Exposure to various procedures and techniques associated with the monitoring and evaluation of the patient with cardiopulmonary disease, with particular focus on hemodynamic monitoring of the critically ill patient.

Pre-reqs:

RCT220

RCT224 CLINICAL PRACTICUM III/SEMINAR

Credit Hours: 3 Contact Hours: 15 Lecture Hours: 1 Lab Hours: 0 Other Hours: 14

Clinical experiences provided include an exposure to invasive and non-invasive ventilatory management, arterial punctures, and other procedures related to the care of the critically ill patient. Experiences are also provided in specialty care areas of respiratory care. The seminar component consists of an introduction of EKG interpretation.

Pre-reqs:

RCT128

RCT225 CLINICAL PRACTICUM IV/SEMINAR

Credit Hours: 5 Contact Hours: 25 Lecture Hours: 1 Lab Hours: 3 Other Hours: 21

Clinical experiences provided include management of the critically ill adult, pediatric, and neonatal patient. Students also participate in clinical simulation scenarios, computer based practice sessions for the NBRC credentialing examinations required to become a registered respiratory therapist, and advanced cardiac life support certification courses. The seminar component consists of a guest speaker series covering specialty topics in the field of respiratory care.

Pre-reqs:

RCT224



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Health and Human Services

Respiratory Therapy/MIST

RCT226 Adv Resp Care Procedures Lab

Credit Hours: 1 Contact Hours: 3 Lecture Hours: 0 Lab Hours: 3 Other Hours: 0

An orientation and practice of advanced respiratory care procedures such as intubation, noninvasive ventilation, assisting with special procedures, and respiratory care specialty areas.

Pre-reqs:

RCT126

RCT227 Neonatal/Peds Respiratory Care

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introduction to the respiratory care principles and practices related to the care of neonatal and pediatric patients, including a review of neonatal and pediatric cardiopulmonary diseases, mechanical ventilation, special procedures, bronchopulmonary hygiene techniques, and assessment and monitoring.

Pre-reqs:

RCT126

Information Tech

Administrative Srv Off Applion

AOT101 ALPHANUMERIC KEYBOARDING

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the working knowledge and basic skills of alphanumeric touch keyboarding. No prior knowledge of keyboarding is required. Upon completion, students should be able to use the proper techniques for alphanumeric keyboarding.

Pre-reqs:



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AOT121 KEYBOARDING/FORMATting

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Knowledge of keyboard is required. This course is designed to refine the fundamentals of "touch" control of the keyboard and proper keyboarding techniques. Major objectives are to build speed and accuracy at the keyboard and to apply keyboarding skills in the formatting of business correspondence, tables and reports. Upon completion, students should be able to format a variety of business documents using a popular word processing package and achieve a minimum keyboarding skill.

Pre-reqs:

AOT127 WP-MICROSOFT WORD

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the concepts, functions, and features of the Microsoft Word program. Creating, editing and storing text are emphasized. Upon completion of this course, the student should be able to produce a variety of professional-looking documents.

Pre-reqs:

And Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

AOT121

Or ITD100

AOT128 DPT-MICROSOFT PUBLISHER

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the concepts and applications of desktop publishing using Microsoft Publisher. Emphasis is placed on the creation of various types of high-quality documents that combine text and graphics. Upon completion, students should be able to design and produce professional business documents and publications.

Pre-reqs:

Or AOT131

BCA120

Or BCA220

Or ECA122

And IMT122

Or ITD122



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AOT128 DPT-MICROSOFT PUBLISHER

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the concepts and applications of desktop publishing using Microsoft Publisher. Emphasis is placed on the creation of various types of high-quality documents that combine text and graphics. Upon completion, students should be able to design and produce professional business documents and publications.

Pre-reqs:

Or ITD220

AOT129 Keyboard Skill Building

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course is designed to give students an opportunity to further develop and refine keyboarding skills. Emphasis on drill work is to improve keyboarding speed and accuracy on a microcomputer. Upon completion, students should be able to diagnose their specific areas of weakness on the keyboard and improve both speed and accuracy.

Pre-reqs:

AOT121

Or OAD121

AOT130 Editing, Proofreading & Lang

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course emphasizes the elements of written communication and implements advanced review in grammar, punctuation, editing, proofreading, and critical thinking skills to prepare for work in administrative, legal, and judicial reporting environments. Upon completion, students should be able to use accurate grammar, punctuation, editing, and proofreading skills in written communications.

Pre-reqs:



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AOT132 RECORDS MANAGEMENT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is an introduction to the fundamentals of a records and information management program. Emphasis is placed on learning and applying standard rules for alphabetic storage and retrieval; including the subject, numeric, and geographic filing methods. Also covered are basic concepts of a records management program and its system components as well as current electronic trends. Upon completion, students should be able to demonstrate an understanding of the components of a records management program and competence in applying the generally accepted standard filing rules.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

AOT134 FORM DESIGN ESSENTIALS

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course is designed to introduce entry-level skills in creating effective form development. Topics discussed are forms analysis, layout, design, sequence of information, column design, electronic forms, hard copy forms, and web-based forms. Upon successful completion of this course, students should have a greater knowledge base of how to create electronic and print forms for any organization.

Pre-reqs:

AOT224 LEGAL OFFICE PROCEDURES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is an introduction to the unique characteristics of law office organization and management with an emphasis on computer applications in law. A general introduction to nonlitigation responsibilities and fundamentals of grammar, style and letter writing are covered. Upon completion, students should be able to demonstrate an understanding of concepts and procedures in a law office.

Pre-reqs:

Or AOT121

Or AOT130

OAD121

Or OAD130



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AOT226 SHRSHEET MICROSOFT EXCEL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers spreadsheet applications on the microcomputer using the Microsoft Excel program. Upon completion, students should be able to demonstrate proficiency in using MS Excel in an office setting to solve common business problems.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100

AOT227 ADMIN PROCEDURES AND SYSTEMS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Emphasis will be placed on an administrative office setting. Areas covered include keyboarding and composing of various office correspondences, processing mail, dealing with visitors, maintaining an office calendar, and making travel arrangements. Office problems, practices, and procedures are also emphasized

Pre-reqs:

AOT121

Or AOT129

And AOT130

And ITD122

AOT232 AOT PRACTICUM

Credit Hours: 2 Contact Hours: 8 Lecture Hours: 1 Lab Hours: 7 Other Hours: 0

Students work a total of 105 hours for businesses outside of the college or for college faculty and/or staff. Weekly instructor-guided activities are part of this course, which may include required class attendance. Upon completion, students should be able to demonstrate proficiency in administrative tasks and skills in a work environment.

Pre-reqs:

AOT227

Or AOT237



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Administrative Srv Off Applion

AOT235 LEGAL RESEARCH AND WRITING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the student to the basics of legal writing, document drafting skills and legal research strategies used in assisting lawyers in the preparation of legal documents.

Pre-reqs:

AOT236 DB APP MICROSOFT ACCESS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers database applications on the microcomputer using the Microsoft Access program. Upon completion, students should be able to demonstrate proficiency in using MS Access to solve common business problems.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100

AOT237 LEGAL OFFICE APPLICATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed for students to gain practical experience in preparing legal documents selected from actual cases, review general information about the tasks assigned, follow established procedures and learn the job responsibilities of a legal assistant through simulated activities. Fundamentals of grammar and punctuation skills, as well as the formatting of legal documents, are emphasized. Upon completion, students should be able to perform legal office responsibilities and produce a variety of legal documents using word processing, spreadsheet, database, and presentation software packages.

Pre-reqs:

And AOT224

AOT239

Or PLS121



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Information Tech

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AOT239 LEGAL TRANSCRIPTION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to prepare students to perform legal transcription in a law office or other legal settings. Classroom instruction will be provided in the different areas of law, the judicial system and legal terminology. Provide students with the knowledge, terminology and background needed to prepare legal documents. Upon completion, students should be able to proficiently transcribe and format a variety of legal documents.

Pre-reqs:

Or AOT129

Can be Taken Concurrently

AOT130

IRT121 REALTIME THEORY I

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 2 Lab Hours: 6 Other Hours: 0

Introduces to stenotype machine theory and technique with instruction in writing the spoken word and punctuation by means of a realtime translation theory. Emphasis on recording, notereading, and transcribing practice in preparation for more advanced courses in machine reporting. Students will learn realtime theory with instruction focused on the use of electronic media and/or realtime technology and teacher interaction. Upon completion, students should be able to write the theory learned in RT Theory I.

Pre-reqs:

IRT123 SPEEDBUILDING III

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 2 Lab Hours: 6 Other Hours: 0

A required lab for skill development refining techniques necessary for perfecting speed and accuracy in transcription of specialized dictation material. Student will be expected to complete weekly activities, practice realtime/captioning on stenograph machine, and use electronic media and/or realtime transcription technology. This course is designed for self-paced modular instruction. This lab is designed to prepare students to write graduation speed requirements for options in the program: For the Judicial Reporting Option, transcribe a minimum of three five-minute, two-voice testimony tests with a minimum of 95 percent accuracy dictated at a minimum speed of 225 wpm; transcribe a minimum of three five-minute jury charge tests with a minimum of 95 percent accuracy dictated at a minimum of 200 wpm; and transcribe a minimum of three five-minute literary tests with a minimum of 95 percent accuracy dictated at a minimum of 180 wpm; and for the Captioning Option, transcribe a minimum of two five-minute, two-voice, non-realtime tests with a minimum of 96 percent accuracy, dictated at a minimum of 225 wpm; transcribe a minimum of three five-minute literary tests with a minimum of 96 percent verbatim accuracy, dictated at a minimum of 180 wpm; and write three 15-minute literary broadcast material takes at 180 wpm (syllabic and/or word count) at 96 percent verbatim accuracy, following NCRA's "What is an Error?" guidelines. The instructor will grade a random five-minute selection from each 15-minute take. Upon graduation, students should be able to pass the National Court Reporters Association's certification examinations.

IRT130



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IRT129 SPEED BUILDING I

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 2 Lab Hours: 6 Other Hours: 0

Designed to increase speed, endurance and accuracy for reporting of multi-voice testimony, jury charge, and legal and technical material. A machine speed of 130 wpm is the goal. Emphasis on development of vocabulary, grammar, punctuation, note reading and realtime writing skills. Instruction shall include the use of electronic media and/or realtime technology with teacher interaction. The course is designed for self-paced modular instruction and shall incorporate the use of Web-enhanced instruction. Upon completion of each module, students should progress to the next module/speed throughout the program.

Pre-reqs:

IRT122

IRT130 SPEED BUILDING II

Credit Hours: 4 Contact Hours: 8 Lecture Hours: 2 Lab Hours: 6 Other Hours: 0

Designed to increase speed, endurance and accuracy for reporting of multi-voice testimony, jury charge, legal and technical material. A machine speed of 175 wpm is the goal. Emphasis on development of vocabulary, grammar, punctuation, note reading and realtime writing skills. Instruction will include the use of electronic media and/or realtime technology with teacher interaction. The course is designed for self-paced modular instruction and will incorporate the use of Web-enhanced instruction. Upon completion of each module, students should progress to the next module/speed throughout the program.

Pre-reqs:

IRT129

IRT131 LEGAL TERMINOLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Instruction in legal terminology in civil law; criminal; and the discovery, trial, and appellate processes. Upon completion, students should be able to comprehend, appreciate, and use legal terms.

Pre-reqs:



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IRT133 THEORY FOR SCOPISTS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will learn realtime electronic shorthand with instruction utilizing online, computer-aided transcription technology, with emphasis on note reading, editing, and transcribing practice in preparation for more advanced courses in the program. Upon completion, the student should be able to read, translate, and edit computer-generated machine shorthand notes taken by court reporters for transcript production.

Pre-reqs:

IRT229 REALTIME SOFTWARE APPLICATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Instruction in operating realtime court reporting software for the production of the legal transcript. Students are taught the process of recording verbatim testimony via a computerized steno machine; reading, translating, and editing the verbatim testimony to produce the legal transcript; file maintenance; dictionary building; EZ keys; globalizing entries. Upon completion, students should be able to demonstrate knowledge and skills in operating and utilizing the different aspects of the realtime court reporting software.

Pre-reqs:

IRT121

Or IRT133

IRT230 BASIC BROADCAST CAPTIONING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to teach students the basics of broadcast captioning. The students will be evaluating their writing skills for captioning, learning captioning style guidelines, creating and managing captioning dictionaries, and the basic formats for writing news, sports, weather, and other broadcasts. Upon completion, students should be able to demonstrate knowledge of realtime/caption production.

Pre-reqs:

IRT122



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IRT231 JUDICIAL PROCEDURES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Introduction to the responsibilities of the judicial reporter in the court system and the freelance environment; legal procedures; reporting techniques; and realtime reporting. Instruction in transcript production; court and transcript forms; researching for transcript production; marking and maintaining exhibits; realtime reporting in a deposition and court environment; the profession and related job opportunities; ethics, including the distribution of the NCRA Code of Professional Ethics; and professional associations. Upon completion, students should be able to demonstrate knowledge in all areas of the responsibilities of the judicial reporter.

Pre-reqs:

IRT122

Or IRT133

And IRT229

IRT233 TRANS & EDITING FOR SCOPISTS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will learn transcription, editing, and research skills specific to the scopist/reporting profession. Instruction utilizing online, computer-aided transcription technology, with emphasis on note reading, translating and editing skills, grammar and proofreading skills, research techniques, and globalizing steno entries. Upon completion, student should be able to read, translate, edit, globalize steno outlines, and print for transcription production.

Pre-reqs:

Or IRT122

IRT133

And IRT229

And IRT231

IRT235 ADVANCED BROADCAST CAPTIONING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to teach students in-depth realtime/caption skills. Topics include how to research specific shows, development and management of specific captioning dictionaries, advanced instruction on captioning style guidelines, utilizing specialized captioning software for reporting in broadcast environments. Upon completion, students should be able to demonstrate realtime/caption production.

Pre-reqs:

IRT230



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IRT240 SHORT WRITING TECHNIQUES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Using an NCRA approved realtime theory, students will focus on shortening their writing techniques in order to build up to graduation speeds. Students will learn and review short writing techniques through lecture, text, and dictation. The instructor will reinforce short writing skills for the judicial and broadcast captioning fields through the use of text, reading and writing lessons, translating, testing, and dictation. Upon completion, students should be able to successfully use short writing techniques without hesitation for the judicial and captioning field.

Pre-reqs:

IRT122

ITD100 COMPUTER APP-WIND & CONCPPTS

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course introduces students to basic computer concepts and the Windows operating system. Upon completion, students should be able to demonstrate an understanding of how the computer functions, applications for which it is used and graphical user interfaces.

Pre-reqs:

ITD102 Computer Applications - Word

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the use, styles and features of word processing programs. Upon completion, students should be able to utilize MS Word as a basic business tool.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100



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ITD104 Computer Applications - PPT

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the use, styles and features of graphic presentation programs. Upon completion, students should be able to utilize MS PowerPoint as a basic business tool.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100

ITD105 Computer Applications - Excel

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the use, styles and features of spreadsheet programs. Upon completion, students should be able to utilize MS Excel as a basic business tool.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100

ITD106 Computer Applications - Access

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the use, styles and features of database application programs. Upon completion, students should be able to utilize MS Access as a basic business tool.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100



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ITD108 Microsoft Outlook

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the use, style, and features of the Microsoft Outlook program. Upon completion, students should be able to utilize Microsoft Outlook as a communication and business tool.

Pre-reqs:

Or Test & Score: ACT Reading - 14

Or Test & Score: Compass Reading - 066

IDS102

ITD122 COMPUTER APP FOR PROFESSNL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Computer Applications for Professionals describes the components and peripherals of a computer/PC and how they function and communicate as a system. Principle topics covered are the Windows operating system, Internet applications, the Windows networking environment and a variety of software application packages used to solve scientific, business, and engineering technology problems.

Pre-reqs:

Test & Score: Computer Test - 21

Or Test & Score: HS Computer Class - 2

Or ITD100

ITD123 MAC CONCEPTS

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course introduces students to basic Mac computer concepts and the Mac operating system. Upon completion, students should be able to demonstrate an understanding of how the Mac computer functions, applications for which it is used and the graphical user interface.

Pre-reqs:



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TDS121 Intro to Training & Developmen

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The purpose of this course is to recognize the multiple career paths of a training and development specialist. Students will begin to explore how adult learners learn. They will become aware of what it means to become a trainer and develop training components, as well as begin to explore the ADDIE cycle (analysis, design, development, implementation, and evaluation).

Pre-reqs:

TDS122 Training Logistics

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the vast responsibilities that trainers will need to consider before, during, and after training sessions. Students will recognize the importance of flexibility and contingency plans for training logistics. They will also learn the various follow-up steps after each session that must be taken to analyze the effectiveness of the trainer themselves and the training they provided.

Pre-reqs:

TDS123 Team Building Dynamics

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will cover the theories, concepts, and design of team building. Students will explore effective team building components, which will include team development; expectations, relationships, and roles; commitment and responsibilities; and results and outcomes.

Pre-reqs:



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TDS124 Instr Design for the Trainer

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will learn to identify the different types of target populations for whom the training is intended so they can organize the selected skills and knowledge to be taught into logical teaching components, which will include: training objectives, activities, teaching strategies, competencies, and assessments.

Pre-reqs:

TDS121

TDS221 Adobe Cap-Pres Skills Trng

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

This course covers the concepts, design, and application of Adobe Captivate. Students will create interactive eLearning materials. Upon completion of this course, students will be able to design and develop quality training materials for eLearning.

Pre-reqs:

TDS222 Web-based Learning

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

Students will learn to develop, implement, and evaluate web-based instruction utilizing a learning management system. Upon completion of this course, students will be able to utilize a learning management system to deliver web-based instruction.

Pre-reqs:

TDS221



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TDS223 ADDIE Capstone Course

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will facilitate the process of training and development and ensure that training programs are necessary, valid, and effective. A capstone project and portfolio will be part of this course, demonstrating each step of the ADDIE cycle (analyze, develop, design, implement, evaluate) of training and development.

Pre-reqs:

TDS221

Computer Science

CIS121 HELP DESK AND COMP SUP CONCEPT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides the student with essential topics covering help desk operations, roles and responsibilities of the analysts, help desk processes and procedures, tools and technologies, performance measures, and the help desk setting itself. There are numerous hands-on projects to practice implementing help desk concepts in a real world situation. Upon completion, students will have a skills to explore in greater detail various helpdesk tools, situations, and user conflicts and resolution.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

CIS125 DATA ANALYSIS AND DECISION MAK

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on key technological areas used for the analysis and transforming of data into actionable information. Students will learn advanced database and data manipulation concepts relating to the storage, retrieval, and analysis of information. Popular tools will be utilized to evaluate various data sources, define business dimensions, store transactions, produce results and transfer data. Upon successful completion of this course, students will be prepared to leverage the power of these tools to perform data analysis.

Pre-reqs:

And CPD121

Or ITD105

And ITD106

ITD122



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Computer Science

CIS126 FUNDAMENTALS OF INFO SYSTEMS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to familiarize students with core information systems principles and practices. Topics include, but are not limited to, types of information systems, hardware and software, data modeling, database systems, internet technologies, systems development, careers, global and social impacts, and industry trends.

Pre-reqs:

Or ITD105

And ITD106

ITD122

CIS221 GENERATING RPTS DECSN MAKING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides students with exposure to various tools used to connect to databases, retrieve and modify raw data, and then generate various types of reports. Topics will include, but not limited to, the generation of various types of reports and extensive use of pivot tables, calculations, program logic, and SQL statements. Upon completion of this course, students will be able to use a variety of software tools to manipulate data and generate meaningful reports.

Pre-reqs:

Or CPD121

ECA253

CIS222 DATA ACQUISITION AND ANALYSIS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The course is designed to build skills and confidence in data analysis and report writing. A substantial part of this time is spent analyzing data/datasets and producing a report using the techniques learned in the course. Using a workshop type learning atmosphere, the instructor advises participants in the analysis of the datasets and preparation of reports. Topics include frequency distributions, measures, and graphical presentation.

Pre-reqs:

CPD121

Or ECA253



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CIS223 IT PROJECT MANAGEMENT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will be involved in the design, development, and management of various IT projects. Using these hands-on labs, students will develop a competency and professionalism in IT project management including the necessary business knowledge, interpersonal skills, and project management skills required to successfully manage IT projects. Topics in this course incorporate universal project management principles, and include important skills such as conflict resolution, negotiation, communicating, team building/leadership, and setting and managing expectations. Upon completion, students will have skills to explore the greater detail various project management tools, such as scheduler, spreadsheets, and databases. This course helps prepare students for the Comp TIA IT Project+ certification test.

Pre-reqs:

And CPD121

Or ITD105

And ITD106

ITD122

CPD121 DATA MODELING AND DATABASE DSGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces database concepts and describes how to properly design, create and interface with a relational database. The course begins with definition of important terms. It demonstrates the specific rules that one must follow to design and create a normalized relational database. SQL is also an important topic. Students complete a collection of hands-on labs to learn how to apply the techniques presented.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Computer Test - 21

Or Test & Score: Compass Reading - 080

Or Test & Score: HS Computer Class - 2

IDS102

And ITD100

CPD122 ORACLE DTBSE: INTRO TO SQL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces Oracle Database technology and the relational database concepts and the powerful SQL programming language. This course provides the students with the essential SQL skills of querying the database, the meta data and creating database objects. This course is designed to prepare you for the corresponding Oracle Certified Professional exam. Demonstrations and hands-on practice reinforce the concepts. Upon completion, the student should have the confidence and skill to develop, maintain and utilize SQL scripts and code.

Pre-reqs:

Or CPD121



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CPD122 ORACLE DTBSE: INTRO TO SQL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces Oracle Database technology and the relational database concepts and the powerful SQL programming language. This course provides the students with the essential SQL skills of querying the database, the meta data and creating database objects. This course is designed to prepare you for the corresponding Oracle Certified Professional exam. Demonstrations and hands-on practice reinforce the concepts. Upon completion, the student should have the confidence and skill to develop, maintain and utilize SQL scripts and code.

Pre-reqs:

ECA253

CPD221 ORACLE DATABASE:PL/SQL PR

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

PL/SQL programming & tuning is an intense hands-on course that is designed to give the student maximum exposure to Oracle PL/SQL tuning and optimization. The student learns by doing dozens of in-class exercises and the student will be guided from very simple PL/SQL tuning to advanced PL/SQL performance optimization. The topics start with the basics of SQL and progress into increasingly complex queries, including table joins, subqueries and creating Oracle views. The PL/SQL section begins with simple concepts and the student gradually masters PL/SQL through increasingly challenging classroom exercises.

Pre-reqs:

Or CPD122

Or CSE122

And ECA127

ECA142

CPD222 MCRSFT SQL SERVER DTBSE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides students with the knowledge and skills required to install, configure, administer, and troubleshoot the client-server database management system of Microsoft SQL Server. Through a system of lessons and hands-on exercises students will gain practical experience using Transact-SQL and Data Transformation Services (DTS) to manipulate data; programming business logic using stored procedures, transactions, triggers, user-defined functions, and views; optimizing database performance by using SQL Profiler and the Index Tuning Wizard; and Managing security--data access, object-level security, and application roles. As students build these real-world database skills, they will also be prepared for the corresponding Microsoft (MCITP) certification exam.

Pre-reqs:

Or CPD121

ECA253



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Information Tech

Computer Science

CPD223 ORACLE DTBASE: ARCH AND ADM

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Introduction to Oracle Administration and Management is a course designed to provide students with an in-depth understanding of the basic features of Oracle including object-orientation, partitioning and advanced Oracle features for the Internet. The goal in this course is to cover the Oracle architecture and internal mechanisms such that the student is able to perform basic DBA tasks such as database creations, startup and shutdown, and database management. The course also covers Oracle networking basics and the Oracle utility programs. Hands-on exercises are used to demonstrate each feature and the student will gain first-hand experience in the key Oracle DBA concepts.

Pre-reqs:

Or CPD122

ECA142

CPD224 ADV MICROSOFT SQL SRVR DTBSE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

In this course students will gain the knowledge and skills to design server-side solutions for Microsoft SQL Server. The course focuses on teaching students the skills of database developers who are individuals who work in enterprise environments to identify and place database technologies during design to achieve a suitable solution that meets the needs of an organization. Students will also learn to consider the solution from a system-wide view instead of from a single database or server perspective.

Pre-reqs:

Or CPD222

ECA139

CPD225 DATA MINING AND DATA WARHOUSNG

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides a thorough practical coverage of the techniques used to build a warehouse including requirements definitions, extract-transformation-loads of data, query applications and executive information systems. Additionally, data mining algorithms and techniques that identify expected and unexpected trends in data stored in a warehouse will be covered. Upon completion students will be able to design, implement and use a data warehouse and use data mining tools to analyze and identify patterns in data.

Pre-reqs:

Or CPD121

ECA253



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CSE121 MOBILE DEVELOP ARCHITECTURE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the student to the overall methodologies of developing applications for mobile and handheld devices. The design, architecture, and techniques of mobile and handheld devices will be analyzed. Upon completion of the course, students should have an understanding of the mobile application development process.

Pre-reqs:

Or CSE122 Can be Taken Concurrently

Or CSE122

ECA127 Can be Taken Concurrently

CSE122 PROGRAMMING LOGIC & PROB SOLV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course addresses the student to program logic and problem solving techniques. Primary emphasis is on achieving familiarity with structured programming principles through awareness and application of structured programming and object-oriented concepts and techniques. Upon course completion, the student should have an understanding of how to develop the logic to solve a programming solution using structured flowcharts and pseudocode.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Computer Test - 21

Or Test & Score: Compass Reading - 080

Or Test & Score: HS Computer Class - 2

IDS102

And ITD100

CSE122A PROGRAMMING LOGIC & PROB SOLV A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to program logic and problem solving techniques. Primary emphasis is on achieving familiarity with algorithm development, variables, sequential statements, and conditional statements. Upon completion students should have an understanding of the following concepts: algorithms, variables and data types, basic sequential statements, conditional logic and how to use them in program coding.

Pre-reqs:

Or Test & Score: ACT Reading - 18

And Test & Score: Computer Test - 18



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CSE122A PROGRAMMING LOGIC & PROB SOLV A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to program logic and problem solving techniques. Primary emphasis is on achieving familiarity with algorithm development, variables, sequential statements, and conditional statements. Upon completion students should have an understanding of the following concepts: algorithms, variables and data types, basic sequential statements, conditional logic and how to use them in program coding.

Pre-reqs:

Or Test & Score: Compass Reading - 080

IDS102

Or ITD100

CSE122B PROGRAMMING LOGIC & PROB SOLV B

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to program logic and problem solving techniques. Primary emphasis is on achieving familiarity with the coding of iterations, arrays, procedures and programming constructs. Upon completion students should have an understanding of the following constructs: iterations, arrays, procedures and how to use them in program coding.

Pre-reqs:

Or CSE122A

ECA127A

CSE221 ANDROID DEVELOPMENT 1

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers how to build mobile applications for the Google Android platform. The history and architecture of the Android operating system will be analyzed. Upon completion of the course, students will be able to create simple Android applications and also have an understanding of Android SDK Tools.

Pre-reqs:

CSE121

And CSE231

Or ECA223



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CSE222 IOS DEVELOPMENT I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers how to build mobile application for the Apple iOS. The history and architecture of iOS will be analyzed. Upon completion of the course, students will be able to create simple iOS applications and also have an understanding of the various tools available with the iOS SDK.

Pre-reqs:

CSE121

CSE223 IOS DEVELOPMENT 2

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers advanced Apple iOS development topics. Best practices will be discussed along with other in-depth iOS programming concepts. Upon completion of this course, students will demonstrate the ability to create advanced iOS applications and the ability to package the applications for deployment in the Apple App Store.

Pre-reqs:

CSE222

CSE224 ANDROID DEVELOPMENT 2

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers advanced mobile applications for the Google Android development. Android best practices will be discussed along with other in-depth Android programming topics. Upon completion of this course, students will demonstrate the ability to create advanced Android applications and the ability to package the applications for deployment in the Android marketplace.

Pre-reqs:

CSE221



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CSE225 CROSS-PLATFORM MOB APP DEV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course examines the various methods for developing mobile applications that are compatible with various operating systems. Coding with frameworks that allow for deployment across different systems will be conducted. Upon completion of the course, students should understand how to create mobile applications that will function on different mobile and handheld devices.

Pre-reqs:

And CSE221

And CSE222

And ECA225

ECA234

Or WDD221

Or WDD222

CSE226 SFTWRE ENG FOR HAND-HELD DEVIC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides an overview of application development and the lifecycle for mobile devices. In this course, students will create basic applications to run on a mobile operating system. Students will also learn how to use available emulation environments to run and test their applications.

Pre-reqs:

Or CSE231

ECA223

CSE227 WINDOWS PROGRAMMING WITH C#

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

In this course the student will learn to design, create, test, deploy, maintain and support desktop software applications using Microsoft's C#.Net. The student will complete a series of hands-on lab exercises using C#. This class will help prepare the student Microsoft's MCTS certification exam. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

Or CSE122

ECA127



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CSE229 VISUAL BASIC DEVELOPMENT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course addresses designing, developing, testing, and deploying desktop software applications using the Microsoft Visual Basic.Net programming language. This course will help prepare the student for MCTS certification in Microsoft Visual Basic.Net. Upon completion of this course, the student should be able to develop a desktop application with a graphical user interface, write code using Visual Basic control structures, properly validate user input, and test and debug the application.

Pre-reqs:

Or CSE122

ECA127

CSE230 ADV VISUAL BASIC DEV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course examines advanced features of the VB.NET language and the .NET Framework. The course also examines object-oriented programming topics, including controlled inheritance and the use of cross language inheritance. Comprehensive hands-on lab exercises using Visual Studio.NET reinforce instructor lectures and build direct competence in the topics presented throughout the course. Upon completing this course, the student should be able to create applications utilizing data connections, datasets, and datatables.

Pre-reqs:

Or CSE229

ECA128

CSE231 JAVA PROGRAMMING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces students to the Java programming language. The course will cover the fundamentals of Java such as Java data types, control structures, classes, methods, and arrays. Upon successful completion of this course, students will learn how to create and execute Java programs.

Pre-reqs:

Or CSE122

ECA127



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CSE231A JAVA PROGRAMMING A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to software programming logic and problem-solving techniques using the Java programming language. ECA223A requires you to install the Java Development KIT(JDK) on your home computer or have access to computers somewhere else which have the JDK installed. Sequential, conditional and repetitive logic constructs are central topics.

Pre-reqs:

Or CSE122

ECA127

CSE231B JAVA PROGRAMMING B

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to software programming logic and problem solving techniques using the Java programming language. Primary emphasis is on achieving familiarity with proper programming practices through awareness and application of structured programming principles and object-oriented concepts. ECA223B requires you to install the Java Development Kit (JDK) on your home computer or have access to computers somewhere else which have the JDK installed. Sequential, conditional and repetitive logic constructs are presented. The students learn how to write Abstract Data Types as a part of the object-oriented presentations.

Pre-reqs:

CSE231A

CSE232 ADVANCED JAVA PROGRAMMING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Design, creation, testing, deployment, maintenance and support of software applications using Sun Microsystem's Java language are illustrated through a collection of practical, hands-on lab exercises and lectures. Applications focus on the multi-threaded, networking and multimedia aspects of the Java language. Helps prepare students for specific Sun Microsystem certification test: Sun Certified Programmer for the Java Platform.

Pre-reqs:

Or CSE231

ECA223



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CSE233 C++ PROGRAMMING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on software engineering concepts, control structures, functions, arrays, pointers and strings found in C++. In addition, the course also examines data abstraction, classes, and operator overloading in C++. Principles of good software engineering are emphasized. Hands-on labs prepare students to solve real-world problems.

Pre-reqs:

Or CSE122

ECA127

CSE233A C++ PROGRAMMING A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course focuses on software engineering concepts, control structures, and functions found in C++. Principles of good software engineering are emphasized. Hands-on labs prepare students to solve real-world problems.

Pre-reqs:

CSE122

Or CSE122B

CSE233B C++ Programming B

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course focuses on software engineering concepts, arrays, pointers, and strings found in C++. In addition, the course also examines data abstraction, classes, and operator overloading in C++. Principles of good software engineering are emphasized. Hands-on labs prepare students to solve real-world problems.

Pre-reqs:

CSE233A



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CSE234 ADVANCED C++ PROGRAMMING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will complete a collection of hands-on lab exercises to create software using the Visual C++ programming language. Students will take advantage of the object-oriented approach to design, develop and utilize components using the Microsoft Component Object Model.

Pre-reqs:

Or CSE233

ECA222

CSE235 PYTHON DEVELOPMENT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will introduce the student to basic programming and syntax, CGI programming, object-oriented techniques, GUIs, exception handling, regular expressions, XML programming, DB-API database integration, networking, security and wireless application development using the Python development environment. Coverage includes control structures, functions, classes, inheritance, string manipulation, security, syntax, objects, exceptions, CGI, GUIs, XML, DB-API, networking, data structures, multimedia, and Python for wireless/handhelds.

Pre-reqs:

Or CSE122

ECA127

CSE236 ANALYZNG SFTWRE REQ AND DEV SOL

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Students will work in teams to investigate, analyze, design, and implement a computer software solution to a simulated or actual real-world business problem. Components that are emphasized are preliminary investigations, systems request, fact finding, systems requirements, logical modeling, input and output design principles, and the use of various applications for documentation, design, and development. Upon completion, students will be able to demonstrate an understanding of the software development life cycle.

Pre-reqs:

CIS221

And CPD121

Or CSE227

Or CSE229

Or CSE231

Or CSE233

Or WDD221



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CSE236 ANLYZNG SFTWRE REQ AND DEV SOL

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 1 Lab Hours: 4 Other Hours: 0

Students will work in teams to investigate, analyze, design, and implement a computer software solution to a simulated or actual real-world business problem. Components that are emphasized are preliminary investigations, systems request, fact finding, systems requirements, logical modeling, input and output design principles, and the use of various applications for documentation, design, and development. Upon completion, students will be able to demonstrate an understanding of the software development life cycle.

Pre-reqs:

Or WDD222

Or WDD224

Or WDD226

DPH280 Photography Portfolio

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This capstone course will focus on developing a highly effective and professional quality photography portfolio from concept to final presentation. A portfolio is required.

Pre-reqs:

IMT263

EET245 TECH PROJ-ELECC TELECOM

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A course designed to allow the student to use the capabilities developed in the telecommunications program courses to carry a project from concept to completion.

Pre-reqs:



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EET260 COMPUTER FORENSICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course presents computer crime investigations. Demonstrations and hands-on practice will reinforce topics such as computer crime, programming in the network monitoring platform, trap and trace techniques and patch level enumeration. Upon completion, the students will be able to provide detailed descriptions of computer crimes and understand the technology related to a response team.

Pre-reqs:

Or CAP121

ECA127

And EET131

EET261 ADVCD NETWKG AND SECURTY TPC

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Session hijacking, trojans, virii, input validation and other types of attacks are covered in this class. Ghost Mail, NetCat and war dialers will be used as tools to provide counter measures against the computer criminal.

Pre-reqs:

ECA129

And ECA130

And EET131

And EET141

GIS123 MAPS AND MAP READING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will focus on geographic concepts, history of map making, and cartographic terminology and processes. Principle topics covered in this course include map elements, map types, the use of symbology, projections, coordinate systems, scales, distance, contours, topographic features and the understanding of physical, economic and human effects on map making.

Pre-reqs:



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GIS231 GEOGRAPHIC INFORMATION SYSTEMS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course emphasizes the principles and concepts of a geographic information system and its applications. Upon completion, students will understand the components that make up a geographic information system, the proper project planning processes, components of global positioning systems, and how to build data layers through imagery identification and basic data queries.

Pre-reqs:

GIS123

GIS232 REMOTE SENS & DIG IMAGE PROC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course emphasizes remote sensing tools and remotely sensed data including aerial and satellite imagery. Students will be expected to learn how to identify and build data layers from aerial photography, as well as understand the tools and concepts needed to perform orthorectification, mosaicking, data subsets, vegetation mapping, change detection and image enhancement skills.

Pre-reqs:

GIS123

GIS233 ADV TOOLS IN GEOSPAT TECH

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course prepares students to apply processes in geospatial technologies, including spatial analysis, surface analysis and routing analysis. Students are expected to be able to apply appropriate database management and file structure skills in building a geodatabase. By learning the application of GIS data structures and topology, students will be expected to perform geospatial analysis from data collection to data analysis.

Pre-reqs:

GIS231

And GIS232



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GIS234 GEOSPATIAL TECH IN INDUSTRY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course emphasizes learning of real-world applications using spatial tools and processes. With an identified geographically-related problem or situation, students will utilize tools and functions in order to conduct geospatial analysis to solve the problem and illustrate the situation with different tools such as GIS and remote sensing. Each lesson in this course will utilize skills learned in previous coursework and given the ability to apply these tools in differing disciplines of geospatial technologies, such as homeland security, emergency management, land planning, economic development, and business management.

Pre-reqs:

GIS233

SGE121 GAME DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Categories of video games, design principles related to different processing platforms, current animation techniques, and current software packages available for creation of video games are all major topics. The focus of this course is to familiarize the student with design technologies and software available to implement animation used for video games. The student will gain an overall view of the gaming industry.

Pre-reqs:

Or Test & Score: ACT Reading - 14

Or Test & Score: Compass Reading - 066

IDS102

SGE221 ADV GAMING AND SIMULATN TOPICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course explores topics in the area of 2D and 3D game programming. The students will develop a variety of software projects related to the gaming and simulation areas.

Pre-reqs:

Or CSE234

ECA224



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SGE222 3D GAME DESIGN AND DEV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on 3D game development. The student will learn the essentials of 3D game development, including basic algorithms, texture mapping basics, 3D math, lighting, etc.

Pre-reqs:

ECA281

Or SGE223

SGE223 2D GAME DESIGN AND DEVELP

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on 2D game programming. The student will learn the essentials of 2D game programming, including basic algorithms, collision detection and mathematic algorithms.

Pre-reqs:

Or CSE233

ECA222

WDD121 INTERNET/INTRANET DES & DEV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the student to the overall methodologies of developing web sites. The history of the Internet, fundamentals of web design, and the HTML and CSS markup languages will be studied. Upon completion of this course, students should have an understanding of the web design and development process and be capable of hand coding a static website.

Pre-reqs:

Or Test & Score: ACT Reading - 18

And Test & Score: Computer Test - 21

Or Test & Score: Compass Reading - 080

Or Test & Score: HS Computer Class - 2

IDS102

Or ITD100



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WDD121 INTERNET/INTRANET DES & DEV A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to the overall methodologies of developing web sites. The history of the Internet, fundamentals of web design, the HTML markup language, and the CSS style sheet language will be studied. Specific topics covered include the basic HTML webpage, configuring text and color with CSS, adding images, and best practices in web design. Upon completion of this course, students should have an understanding of the web design and development process and be capable of hand coding a basic static website.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Computer Test - 18

Or Test & Score: Compass Reading - 080

IDS102

And ITD100

WDD121 INTERNET/INTRANET DES & DEV B

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course introduces the student to the overall methodologies of developing web sites. The history of the Internet, basics of web design, the HTML markup language, and the CSS style sheet language will be studied. Upon completion of this course, students should have an understanding of the web design and development process and be capable of hand coding a basic static website. Specific topics covered include page layout with CSS, tables, forms, and web multimedia.

Pre-reqs:

WDD121A

WDD122 WEB GRAPHICS DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers creating and editing backgrounds and graphics for use on the internet. Students will learn appropriate design skills and techniques, design language and study color relationships through demonstrations and hands-on practice in order to reinforce the concepts as they use various leading edge technologies to create graphics. Upon completion of this course, students will be able to analyze web graphics and design; develop web graphics; optimize images for the web and understand the concepts of design as they relate to the web.

Pre-reqs:

ECA228

Or WDD121



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WDD122 WEB DESIGN GRAPHICS A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course covers creating and editing backgrounds and graphics for use on the internet. Students will learn appropriate design skills and techniques, design language and study color relationships through demonstrations and hands-on practice in order to reinforce the concepts as they use various leading edge technologies to create graphics. Upon completion of this course, students will be able to analyze web graphics and design.

Pre-reqs:

ECA228

Or WDD121

WDD122 WEB GRAPHICS DESIGN B

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

This course covers in-depth web page layouts and how to create full web page designs using photo software. Students will be able to develop page layouts based on industry best-practices for design and optimization. Upon completion of this course, students will be able to develop web graphics; optimize images for the web and understand the concepts of design as they relate to the web as they use various leading edge technologies to create graphics.

Pre-reqs:

WDD122A

WDD124 FLASH ANIMATION AND DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the students to Adobe Flash. The student will learn to work with Flash effectively and master the concepts of animating with Flash. Topics include developing animations, tutorials and web objects with Flash. Programming in Flash with Actionscript is introduced. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

ECA228

Or WDD121



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WDD221 WEB DEV W JAVASCRIPT AJAX

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces students to Javascript and AJAX. Students will be able to develop interactive web sites using JavaScript and AJAX components. Various assignments enhance the student's ability in JavaScript, including interaction with the browser, regular expressions and form validation. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

ECA228

Or WDD121

WDD222 ADVD CASCADING STYLE SHEETS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on developing web pages with the latest design and development techniques such as web pages created entirely using a CSS layout. Usability is emphasized as well as web site documentation. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

ECA228

Or WDD121

WDD223 CONTENT MGT SYS DEV DES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course teaches students to set up, design, and customize various open-source content management systems. In addition, students will be instructed on the various ways to add shopping cart functionality to those systems. Upon completion, students will be able to make customizations to various open-source content management systems.

Pre-reqs:

Or CPD121

And ECA228

ECA253

Or WDD121



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WDD224 ACTIVE SERVER PAGE DEV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on server side programming with ASP.Net. Students learn to connect to a database, add, update, and delete from the database, create user controls, master pages, XML driven site navigation and login pages. ASP.Net web controls are emphasized. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

Or CSE122

And ECA127

ECA228

Or WDD121

WDD225 ADV ACTIVE SVR PAGE DEV

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers advanced topics in the ASP.Net technology from Microsoft. Topics covered will be ADO.net, Converting data back and forth from XML, building custom controls and N-tier development. Several complete applications will be developed.

Pre-reqs:

ECA229

Or WDD224

WDD226 WEB DEV WITH PHP AND MYSQL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students learn to develop server side scripts with PHP including developing various web applications and connecting to a MySQL database. Additional topics include the development and design of the MySQL database. Upon completion, students will be capable of utilizing PHP to develop web applications and connect to a MySQL database. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

Or CSE122

And ECA127

ECA228

Or WDD121



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WDD227 ADV WEB DEV W PHP AND MYSQL

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An advanced course in PHP and MySQL focusing on web database integration. Learn more advanced techniques such as image/file uploads and AJAX integration and develop a complete content management system in PHP and MySQL.

Pre-reqs:

ECA236

Or WDD226

WDD228 SEARCH ENGINE OPTIMIZATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on optimizing HTML code for search engine placement. Topics include link building, natural optimization vs pay per click, understanding web statistics and conducting online PR campaign.

Pre-reqs:

ECA228

Or WDD121

WDD229 ADVANCED WEB DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on creating and coding advanced web designs with HTML and CSS. Advanced graphic techniques are introduced. Hands-on projects take the student from an initial concept to a graphic mockup and finally to a complete web page.

Pre-reqs:

ECA138

Or WDD122



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WDD230 ADV FLASH ANIMATION AND DES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Learn to develop cartoon characters online and use them in web site marketing. Each aspect of character drawing taken step by step is concluded with developing a complete character. Various animation techniques are applied to the character culminating in a complete animation. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

ECA155

Or WDD124

WDD231 FLASH ACTIONSRIPTING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on using Flash for web site creation. The student learns to use actionscripting to interact with Flash, load external data and create complex sites using components. Hands-on labs are utilized to reinforce the presented materials.

Pre-reqs:

Or CSE122

And ECA127

ECA155

Or WDD124

Computer Security

CFS129 CRYPTOGRAPHY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the student to information security, potential threats to our information, and effective countermeasures to proactively combat those threats. A comprehensive review of cryptographic techniques is presented and explained in simple mathematical terms. Symmetrical and asymmetrical encryption, digital signatures, Kerberos, creation/deployment of strong keys and passwords, Virtual Private Networks, Tiny Encryption Algorithm (TEA) and other topics will be covered.

Pre-reqs:



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CFS136 PRINC OF INFORMATION SECURITY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course examines the current standard of due care and best business practice in information security. Demonstrations and hands-on practice will reinforce topics such as evaluation and selection of security models, risk management, threat analysis, organizational technology evaluation, security implementation, disaster recovery planning and security policy formation and implementation. Upon completion, the students will be able to examine security technology, methodologies and practices.

Pre-reqs:

CFS137 COMPUTER CRIME AND INVESTIGATN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides an overview of cyber crime and computer related crime issues facing businesses and the criminal justice system. Demonstrations and hands-on practice will reinforce topics such as how computers are used in crime, interview techniques, search warrants, evidence handling, chain of custody, identification and recovery of computer data, report writing, case preparation, and courtroom testimony. Upon completion, the students will be able to understand government response to cyber crime issues from a law enforcement perspective.

Pre-reqs:

Or ECA145

NET120

CFS140 BIOMETRIC APPLICATIONS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will present an overview of the applications of Biometrics to Homeland Security and Information Security. Topics will include the application of Biometrics to airport security, border security, critical infrastructure, and commercial and consumer markets. Students will perform hands-on implementation of Biometric technologies.

Pre-reqs:



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CFS175 WHITE COLLAR CRIME

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will familiarize students with the various types of white collar crimes committed in the banking, health care and financial industry. Emphasis will be placed on recognition and investigation of white collar crime particularly those involving the use of information system resources.

Pre-reqs:

CFS176 ONLINE INVESTIGATION RESOURCES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will provide the student with knowledge, techniques and tools to gather information from various online resources that are available in the public domain that can assist in the process of conducting various types of investigations.

Pre-reqs:

CFS137

Or ECA137

CFS256 DISASTR RCVRY AND INCIDENT PLN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is a detailed examination of the aspects of contingency planning operations. Demonstrations and hands-on practice will reinforce topics such as incident response-prevention, detection, reaction, disaster recovery, and business continuity. Upon completion, the students will be able to provide documentation for a disaster recovery plan.

Pre-reqs:



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CFS257 FILE SYSTEMS ANALYSIS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is a comprehensive overview of contemporary volume and file systems. Topics include, discovering hidden evidence, recovering deleted data, data structures, and tool validation. Students will analyze example disk images, and participate in advanced investigation scenarios.

Pre-reqs:

Or CFS137

ECA137

CFS258 CYBER FORENSCS AND DATA RECRVY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course presents methods to properly conduct a computer forensics investigation while mapping to the objectives of the International Association of Computer Investigative Specialist (IACIS) certification. Demonstrations and hands-on practice will reinforce topics such as finding evidence in file metadata, analyzing partitions and data structures, and identifying hidden data on a disk's Host Protected Area. Upon completion, the students will be able to gather evidence from disk images document findings.

Pre-reqs:

CFS257

Or ECA257

CFS275 ETHICAL HACKING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

In this course, students learn to discover weaknesses in operating environments using the well known hacking methods. Students will acquire the knowledge to systemically test and exploit internal and external defenses. Students will learn the countermeasures used to mitigate and reduce risk to enterprise networks. Students will be taught how to crack security systems so they can advise organizations on how to protect their systems.

Pre-reqs:

Or ECA145

Or ECA277

NET120

And NET220



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CFS280 DIGITAL MEDIA FORENSICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The student will understand the methods and tools used in preserving, duplicating, imaging and validating data from peripheral devices such as cellular phones, PDAs, IPODs, and Blackberrys. In addition to this, attention will be given to the gathering of evidence from both hard wired and wireless networks devices. Students will practice the gathering of information from these devices using the appropriate methods and software to allow the information to be admissible in court.

Pre-reqs:

CFS137

Or ECA137

CFS281 ADV DIGITAL MEDIA FORENSICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The student will learn advanced techniques to gather data from digital devices focusing on data maintained in system memory and recovery of this data using live acquisition tools and techniques.

Pre-reqs:

Or CFS258

ECA258

CFS286 UNIX/LINUX FORENSICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers typical methods of collecting, examining, and recovering data from typical UNIX style file systems. Methods for imaging and mounting file systems without changing data will be studied. Ways of monitoring system events and tracking intruders.

Pre-reqs:

Or ECA277

NET220



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CFS287 NETWORK FORENSICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is designed to teach students the skills required to identify, acquire, and analyze data gathered from network devices using both passive and active tools. Emphasis will be placed on the use of open-source security tools to conduct an analysis of network activity to gather information relative to an investigation.

Pre-reqs:

CFS137

And NET121

And NET220

ECA130 SOFTWARE VULNERABILITIES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Enumeration, exploits, keygens and other application vulnerabilities are presented. Security holes and exploitations in computer, interpreted and web based applications are addressed in a hands-on environment.

Pre-reqs:

ECA127

And EET131

And EET141

HLS121 INTRO TO EMERGENCY MGT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides awareness-level emergency preparedness training for the first responder's workforce. The course is a study of the theory and practice of incident command, the various methods of incident command, with specific focus on Incident Command System and NIMS. Cases will be studied in order to assist students in understanding the management and leadership associated with modern emergencies and disasters.

Pre-reqs:



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HLS122 INTELLIGENCE AND HOMELAND SEC

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will explore the organization and functions of U.S. Intelligence and Homeland Security, its interaction with national security policymakers, key issues about its workings, and the challenges it faces in defining its future role. The events of 9/11 focused new attention on national intelligence, including the most significant reorganization of the community since the National Security Act of 1947. The course will highlight some of the major discussions about the role, practices, and problems of intelligence.

Pre-reqs:

HLS123 HOMELD DEF AND CRISIS MGT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will provide students with an introduction to crisis management techniques, principles, and strategies preparing them to manage and even prevent crises in the homeland defense realm. Students will be able to identify potential crises and vulnerabilities; establish the procedure to follow in case of a crisis; elect and prepare a response team; and set up organizational channels to facilitate early warnings.

Pre-reqs:

HLS220 WEAPONS OF MASS DESTRUCTN AWAR

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course is intended for first responders likely to witness or discover hazardous substances and initiate an emergency response sequence. This course is intended to meet Federal OSHA standards for police and other public-sector personnel.

Pre-reqs:

HLS123



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HLS221 TERRORISM AND HOMELAND DEFENSE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course acquaints the student with major issues in global terrorism, from the history and development of terrorism through the psychology, financing, structure, and dynamics of terrorist groups. The course also includes a focus on legal issues and terrorism of the future.

Pre-reqs:

HLS122

HLS225 INTELLIGENCE ANALYSIS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course involves gathering and analyzing foreign and domestic intelligence related to security including terrorism. This course utilizes structured analytical techniques to compile and analyze intelligence gathered from multiple sources to develop thorough and disciplined analytical process. Methods used will include idea generation, scenarios and indicators, hypothesis generation, cause and effect, and decision support. Students will apply structured analytical techniques using intelligence analysis software.

Pre-reqs:

IMT121 INTERACTIVE MEDIA

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Topics include communication through design, sketching and visualization, the use of computers and human-computer interaction. Human-computer interaction is explored through a survey of web, audio, video, and design projects.

Pre-reqs:



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IMT122 GRAPHIC ARTS DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Topics include effective communication through design from thought to finished process. Upon completion students will be able to effectively use Adobe Photoshop to create computer graphics.

Pre-reqs:

IMT122A GRAPHIC ARTS DESIGN A

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

Students successfully completing the Graphic Arts Design A (IMT122A) course will acquire a working knowledge of the concepts, components and composition necessary in the design of print media. They will learn effective communication through design, beginning with the concept and concluding with the finish product.

Pre-reqs:

IMT122B GRAPHIC ARTS DESIGN B

Credit Hours: 1.5 Contact Hours: 2 Lecture Hours: 1 Lab Hours: 1 Other Hours: 0

Students completing the course will obtain functional and foundational knowledge of Adobe Photoshop CS3 and will use that software in the design materials for the course. Knowledge of the concepts and the software taught in this course are necessary for students interested in pursuing careers in Graphic Design, 3-D Design, Desktop Publishing and Animation.

Pre-reqs:

IMT122A



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IMT125 3D GRAPHICS MODELING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Topics include 3d modeling, texturing, lighting, and rendering. Upon completion, the student will be able to effectively use the 3dsMax interface to create and render 3d objects and scenes.

Pre-reqs:

IMT122

IMT129 DIGITAL AUDIO RECG AND EDITING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The student will learn how to record, edit, and design with audio through a combination of lecture, lab, and student projects. Upon completion of this course, the student will be able to design, capture, and create audio for a variety of media including TV, web, and CD.

Pre-reqs:

IMT131 COLOR THEORY AND DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces the elements and principles of two-dimensional design, including the study of graphic design history, color theory and the elements and principles of design as it applies to the visual arts. Coursework will consist of lectures and discussions involving critiques on color theory and design concepts and applications. Class assignments emphasize creative problem solving techniques with specific limitations and specifications.

Pre-reqs:



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IMT132 DIGTL PHOTOGRAPHY/GRAPHIC&MEDIA

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course teaches the student the principles of digital still photography and enhances student skills in digital image manipulation. Topics covered include: focus, exposure, composition and lighting. Students must provide their own digital camera for the duration of the course. TAG approved course- OAH002

Pre-reqs:

IMT134 TECHNICAL MUSICIANSHIP

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The technology of MIDI controllers, sight singing and ear training are the focus of this course. Compositions will be explored using MIDI and music notation software.

Pre-reqs:

IMT135

Can be Taken Concurrently

IMT135 MUSIC THEORY AND COMPOSITION I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The creation of music using classical notation is the focus of this course. The student will be able to explain music theory fundamentals and its related rules. Upon completion of this course the student will be able to compose and arrange 16-32 bar songs with theoretical accuracy.

Pre-reqs:



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IMT136 PRINCIPLES OF ANIMATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course teaches students established animation principles in a traditional 2D environment, bringing more life and appeal to any animation projects. These principles can directly applied to various animation technologies such as 3D, motion graphics, and web animation.

Pre-reqs:

IMT137 DRAWING BASICS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers principles of drawing such as: line, shape, contour, volume, texture, perspective, and composition. Course will cover topics such as: drawing for realism, abstract drawing, storyboarding, and thumbnail sketching.

Pre-reqs:

IMT223 DIGITAL VIDEO RECORDING & EDIT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the production of digital video. Studio practice will include topics such as camera operation, lighting, and digital video editing. Working independently and in groups, students work on projects including documentary, short subject narratives, and editing exercises. TAG approved Summer 2012 OCM008.

Pre-reqs:

IMT121



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IMT227 3D GRAPHICS ANIMATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students learn to create and render animations in a 3D development environment while exploring basic concepts such as Basic Keyframing, Curve Editors, and Object Hierarchy. Upon completion, the student will understand more advanced techniques such as the use of Constraints/Controllers, Bones Systems, and Facial Animation.

Pre-reqs:

And IMT125

IMT136

IMT230 WEBCASTING AND MUSIC PUBLISHING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The goal of this course is for students to learn how market their music as widely and effectively as possible. The course covers the pros and cons of various file formats and how to create professional-quality files for distribution. The course also seeks to further the students' understanding of the details of music as a business. Aspects covered include preparing media for the web, distribution and synchronizing rights, licensing and copyright, and publishing in the internet age.

Pre-reqs:

IMT129

IMT237 COMPOSITING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students learn how to create special effects using the green screen, mattes, alpha channels and masks, using special effects software. Upon completion, students will be able to effectively create special effects in various formats. Students will gain these skills through a series of labs and projects utilizing Adobe After Effects.

Pre-reqs:

Or IMT125

IMT223



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IMT238 ADVANCED VIDEO PRODUCTION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course expands on the skills and techniques learned in Lighting & Cinematography. There will be more focus on the creation of HD video and DVD authoring. Student projects will be used to explore the latest techniques in the video industry. TAG approved Summer 2012 OCM010.

Pre-reqs:

IMT242

IMT239 MUSIC SYNTHESIS I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The focus of this course is to provide students with the opportunity to develop portfolio level work in the multifaceted areas of music synthesis. The course will provide both a theoretical and practical knowledge of music synthesis. The practical knowledge will be attained by completion of various projects which encompass all the core functions of music synthesis professionals.

Pre-reqs:

And IMT129

IMT247

IMT240 ADVANCED 3D GRAPHIC MODELING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides the student with opportunities to learn and refine the 3D modeling, texturing, lighting, and rendering skills learned in earlier courses. Upon completion, the student will be able to effectively use the 3D software to interface to create and render various 3D graphic objects and characters.

Pre-reqs:

IMT125



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IMT242 LIGHTING AND CINEMATOGRAPHY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the topics necessary to design videos from script to screen. Studio practice will reinforce topics such as exposure, composition, framing, and single camera production. Lighting topics include studio and field lighting techniques, artistic and functional lighting design and applications. Upon completion, the student will be able to plan, shoot, and edit short form videos in a variety of genres.

Pre-reqs:

IMT223

IMT243 ADVANCED COMPOSITING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the design and integration of motion graphics with video. Studio projects will reinforce topics such as integration of 3D graphics with video, advanced animation techniques, filters and footage repair. Techniques learned will apply equally to game design and movie special effects. Students will gain these skills through a series of hands-on project utilizing Adobe After Effects and Autodesk 3DsMax.

Pre-reqs:

IMT237

IMT244 DIGITAL PAGE LAYOUT AND DESIGN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course offers the student a foundation in layout and design for advertising, marketing, newsletter, and other publication materials. Emphasis on design principles for the creation of advertising and publishing materials such as letterheads, business cards, ads, fliers, brochures, and manuals. This capstone course will allow students to master design principles through the use of typography, effective use of color, special graphic effects and output considerations. Students will gain these skills through a series of hands-on projects utilizing Adobe InDesign.

Pre-reqs:

IMT131

And IMT253



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IMT245 GRAPHIC ARTS DESIGN II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course expands on the skills and techniques learned in Graphic Arts Design. Additionally, there will be more focus on photographic enhancements; working with filters and other tools and options available to enhance graphics in this course. Upon completion of this course, students will develop further understanding and abilities to design and enhance both print and web media. Demonstrations and hands-on projects are implemented on the computer using Adobe Photoshop.

Pre-reqs:

IMT122

IMT246 APPLIED MUSIC TECHNOLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A practical application of the student's knowledge of music, music technology, and computer software/hardware technology. The student will create a number of musical compositions assisted by MIDI software/hardware interfaces and merge these compositions with web sites, training videos, marketing presentations and other practical applications of software engineering technology.

Pre-reqs:

IMT250

IMT247 MUSIC THEORY COMPOSITION II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A continuation of the first course that provides the student with advanced composition, theory, harmony and improvisational skills with the focus of implementation being TV, film and mixed media.

Pre-reqs:

IMT135



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IMT249 TEXTURES FOR 2D AND 3D

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the creation of professional-quality textures for both 2D and 3D design. Upon completion of this course, students will learn the art and design in the creation of these textures and effects, including basic designs, shortcuts and creating environmental textures. Design skills covered in this course will allow students to proceed to designing textures for 3D gaming among other applications. Learning will be facilitated through a series of projects using current application design software.

Pre-reqs:

IMT125

IMT250 MUSIC TECHNOLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Building on the understanding of audio recording developed in IMT129, Music Technology emphasizes commercial music production with advanced discussions and implementation of mixers, digital recording devices, duplicators and software in a lab-based environment. Upon completion, the student will be able to analyze music production needs and create simple, viable presentations of their own projects.

Pre-reqs:

IMT129

IMT251 AUTHORIZING AND VIDEO COMPRESSION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers advanced topics in video compression for both DVD and the web. Streaming video, video integration with other web media and flash video will be covered through a series of production/ compression challenges. DVD authoring standards, compression rates and DVD preparation will also be covered.

Pre-reqs:

IMT242



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IMT253 GRAPHIC FOR ILLUSTRATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students will learn how to develop basic illustrations and line art using Adobe Illustrator. Labs focus on drawing and creating logos, print and web graphics, industrial devices and medical illustrations.

Pre-reqs:

IMT122

IMT254 PORTFOLIO DEVELOPMENT-IMT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This capstone course will focus on developing and completing complex print design projects and a portfolio. These projects are used to assess the students competencies and proficiencies acquired in the program. A portfolio is required.

Pre-reqs:

IMT244

Can be Taken Concurrently

And IMT245

IMT255 ADVANCED ILLUSTRATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will expand on the skill learned in IMT253 and will focus on logo design and illustration design using Adobe Illustrator. Demonstrations will include hands-on projects produced by students to enhance their their understanding of vector artwork. Upon completion of this course, students will have an increased knowledge and understanding of Adobe Illustrator, logo design and illustration design.

Pre-reqs:

Or ECA243

IMT253



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IMT256 DIGITAL IMAGING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on both vector and raster graphics for screen based graphics. Course focuses include: graphics for video, graphics for presentations, image formatting, digital photo editing, pattern and texture creation, image optimization, and vector raster graphic integration techniques. Upon the completion of this students will understand of how to merge design technologies to create professional quality screen graphics.

Pre-reqs:

IMT122

And IMT132

IMT259 MUSIC SYNTHESIS II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course requires students to utilize many of the skills they have developed throughout Music Theory and Composition I and II, Technical Musicianship, and Music Synthesis I. It is primarily a project-based course divided into three modules; Analysis of Music Production Styles and Techniques, MIDI Protocol, and Acoustics in a Musical Environment.

Pre-reqs:

IMT239

IMT260 LIVE SOUND

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Live Sound Technology studies the needs of audio reinforcement for the music venue. The student will study all aspects of live sound through advanced discussions and implementation of mixers, processors, and amplifiers in a lab-based environment. Upon completion, the student will be able to analyze music production needs and set-up and operate a sound system.

Pre-reqs:

IMT129



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IMT261 ADVANCED MUSIC TECHNOLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Advanced Music Technology requires students to utilize the skills they have developed throughout the Music Technology and Applied Music Technology classes. Students will refine their skills as music producers and engineers by completing regular homework assignments and four large-scale projects, designed to build professional-standard portfolios.

Pre-reqs:

IMT239

And IMT246

Can be Taken Concurrently

IMT262 ADVANCED DIGITAL PHOTOGRAPHY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Continues the study of aesthetic and technical theories and techniques of digital photography. Topics include intermediate level exposure, composition, lighting, creativity and image editing and correction techniques. Projects require exploration and experimentation. Students will begin to develop a personal photographic style. Digital SLR camera required.

Pre-reqs:

IMT132

IMT263 PHOTOGRAPHIC LIGHTING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course gives students an in-depth understanding of light in photography and how to use different lighting equipment and techniques to achieve desired effects in a final image. Topics of instruction include: correct exposure, lighting ratios, basic portraiture lighting, and studies in composition of commercial photographs.

Pre-reqs:

IMT132



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IMT264 IMAGE MANAGMENT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students learn the essentials of professional digital photography for managing, adjusting and publishing small and larger volumes of digital photographs. This hands-on course takes students through a non-destructive professional editing workflow to fine tune photos with precise management tools and methods.

Pre-reqs:

IMT132

And IMT262

IMT265 MOTION GRAPHICS PORTFOLIO

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This capstone course will focus on developing and completing complex production projects and a portfolio. These projects are used to assess the student's competencies and proficiencies acquired in the program. A portfolio is required.

Pre-reqs:

IMT268

IMT266 FILM THEORY AND PRACTICE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The course will evaluate and dissect film from historical pictures to the modern day 3-D films. The course also covers the ideology and technology of film throughout history until the present day It allows critical thinking about how and why the film was made in addition to practicing those techniques and replicating them using today's post-processing software. Students will reconstruct the films that they study using today's technology.

Pre-reqs:

IMT121



Stark State College

For Term: Summer 2015

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DataBase: Prod
DataBlock: Course Catalog - Credit

Information Tech

Computer Security

IMT268 ADVANCED VIDEO EDITING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will begin with the history and significance and editing through the development of new technologies and nonlinear editing. It will cover theory and practice utilizing the industry standard editing software proram. The course will introduce advanced methods of editing and effects for the students, including multi-camera editing, color correction, and transitions.

Pre-reqs:

IMT223

NET120 PC UPGRADING AND MAINTENANCE

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

The student will be working with various operating systems such as DOS, Windows 98, 2000 and XP. Student will also have hands-on experience building and repairing PC's in a lab environment. Hardware topics include: system board, microprocessors, busses, memory, disk drives, and power supplies.

Pre-reqs:

NET121 INTRO TO COMP NETWORKING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Fundamentals of networking, which includes sharing computer resources, protocols, cables and adapters, E-mail, network, inter-operability and management is covered. Various network products are described and compared. CTIT007 Cisco I

Pre-reqs:



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NET131 MICROSOFT CLIENT OPERATING SYS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Course includes installing and administering the Windows Operating Systems. It also covers security issues, installation troubleshooting, desktop issues, and desktop configuration.

Pre-reqs:

Or ECA145

Or ECA146

NET120

And NET121

NET134 CCNA PHASE I

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course introduces students to the networking field. Upon completion of this course, students can perform entry-level tasks in the planning, design, installation, operation, and troubleshooting of Ethernet and TCP/IP networks. Technologies include networking mathematics, terminology, models, media, LAN and WAN testing and cabling, Ethernet operation, switching, IP addressing and subnetting, IP, TCP, UDP, and application layer protocols.

Pre-reqs:

ECA146

Or NET121

NET135 CCNA PHASE II

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course focuses on initial router configuration, Cisco IOS software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Students will learn how to configure a router, manage Cisco IOS software, configure routing protocols on routers, and set access lists to control access to routers. Technologies include Cisco IOS Software Management, router configuration and file management, RIP and IGRP routing protocols, TCP/IP error and control messages, and Access control lists.

Pre-reqs:

ECA134

Or NET134

Can be Taken Concurrently



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Information Tech

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NET137 Routing & Switching Essentials

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the basics of routing and switching. Course topics include implementation of VLAN's, inter-VLAN communication, VLAN Trunking Protocol, RSTP, static routing, an introduction to dynamic routing protocols and routing between networks. Essential network concepts including ACL's and advanced subnetting are also covered.

Pre-reqs:

NET121

NET220 UNIX/LINUX OPERATING ENVIRONMT

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers working at the Unix/Linux shell command line, customizing the shell environment, understanding basic filesystem structure and permissions, file management tools, basic shell scripting techniques, vi text editor, data processing tools, Xserver, Xwindows, remote machine access using SSH & FTP, compiling C programs under Unix, and formation of make files and the make command.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 055

Or MTH093

And MTH094

MTH123

NET244 MICROSOFT NETWORKING I

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Course covers installing and configuring a Microsoft server operating system. Students will demonstrate skills necessary to implement a core infrastructure into an existing enterprise environment. Topics include working with Active Directory, implementing local storage, implementing file and print services, and implementing server virtualization with Hyper-V.

Pre-reqs:

Or ECA144

Or ECA145

NET120

And NET121



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NET245 MICROSOFT NETWORKING II

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Course covers administering a Microsoft server operating system. Students will demonstrate skills necessary to administer an infrastructure in an enterprise environment. Topics include implementing group policies, managing user accounts, managing domain services, DNS, and remote access.

Pre-reqs:

Or ECA244

NET244

NET246 MICROSOFT NETWORKING III

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Course covers configuring advanced Microsoft server services. Students will master skills necessary to administer an infrastructure in an enterprise environment. Topics include implementing advanced network services, advanced file services, dynamic access control, network load balancing, failover clustering, and disaster recovery.

Pre-reqs:

Or ECA244

NET244

NET251 VOICE OVER IP FUNDAMENTLS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will introduce students to the fundamental concepts of Voice over IP systems. Demonstrations and hands-on practice will reinforce topics including connectivity to legacy systems, quality of service, H.323, SIP, MGCP signaling, dial peers, and voice quantization. Upon completion, students will be able to identify VoIP components and configure analog to digital voice system.

Pre-reqs:

NET137



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Computer Security

NET253 SEC NTWK SWITCH AND ROUTERS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course will introduce students to security topics and best practices on switches and routers. Demonstration and hands-on practice will reinforce topics including secure communications using IPSec and VPNs, Cisco IOS security, and identity based services. Upon completion, students will be able to implement layer 2 and 3 security, create secure lines of communication, and deploy threat defense using the Cisco IOS.

Pre-reqs:

NET137

NET254 CISCO WIRELESS

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course introduces students to the wireless networking field and prepares them to take the CCNA: Wireless certification exam. Students will start the course working on small stand-alone wireless access points and as the course progresses, move into modular wireless network design using the Cisco Unified Wireless Network (CUWN) framework. Students are also introduced to the Cisco Wireless Control System (WCS) and Mobility Express Wireless Architecture.

Pre-reqs:

NET137

NET256 Scaling Networks

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on growing the network and using advanced routing protocols such as EIGRP and multi-area OSPF. Course topics include network design and its effects on growing networks including the need for link aggregation and DHCP, maintaining the network with IOS file management and layer-2 troubleshooting.

Pre-reqs:

NET137



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Computer Security

NET257 Connecting Networks

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course focuses on interconnecting LAN technologies across the Internet. Course topics include serial connections, T1's and DSL, creating multi-point frame relay and MPLS networks across a provider's network, monitoring, troubleshooting and security. CTIT010 Cisco IV

Pre-reqs:

NET137

NET264 UNIX/LINUX SYS ADMIN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers administration and configuration of UNIX and/or LINUX operating systems. Topics include: adding/maintaining user accounts, bootup, shutdown, runlevels, daemons, backup and restoring files, basic network configuration, policies and ethic, process control, file systems, log files. During the lab, the student will install LINUX on a personal harddrive and be the administrator of their personal system. Students will add users, schedule cron jobs, add file systems to their system, etc.

Pre-reqs:

Or ECA277

NET220

NET265 UNIX/LINUX SHELL SCRIPTING

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

Students learn how to combine standard UNIX commands and utilities together in Bourne style shell scripts for automation of system administration tasks and data manipulation and reporting. Emphasis is on redirection, looping, command substitution, redirection, process control and regular expressions. Other topics addressed include database interaction, various markup languages (LateX and HTML), perl, awk, and sed scripting.

Pre-reqs:

Or ECA277

NET220



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Information Tech

Computer Security

NET266 UNIX/LINUX NETWORK ADMIN

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course addresses administration and configuration of network server software found on the UNIX and/or LINUX operating systems. Students will install a LINUX server of their personal hard drives, setup various types of network servers. Many labs will require students to work together to test each other's server configurations. Server topics include: DNS, xinetd, electronic mail, network file sharing, etc. Security topics include: iptables, PAM, tripwire and tiger.

Pre-reqs:

Or ECA277

NET220

NET280 WEB SERVER ADMINISTRATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course covers the installation and configuration of the Apache web server and the server hardware that supports it. Demonstrations and hands-on practice will reinforce topics such as virtual hosts, authentication, virtual domains, CGI, PHP, and SSL. Upon completion, students will be able to administer the hardware and operating environment of web servers.

Pre-reqs:

Or ECA274

Or ECA276

NET264

Or NET266

NET281 FIREWALL AND NETWORK SECURITY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

This course provides the technology essentials for a web developer to design and develop secure E-Commerce solutions. Techniques such as the Luhn Algorithm and 128 bit encryption will be explored and implemented.

Pre-reqs:

NET137

Sciences

Biology



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Sciences

Biology

BIO101 INTRO TO ANAT AND PHYSIO

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

Provides understanding of human structure and function of all body systems. Focus will be given to beginning chemistry principles, cells and tissues. This course is for the student who has little or no background in human anatomy and physiology. TMNS Approved effective Autumn 2008.

Pre-reqs:

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Reading - 080

IDS102

BIO121 ANATOMY AND PHYSIOLOGY I

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

The human body is presented as an integrative, homeostatic organism with emphasis on the underlying chemical and cellular processes necessary for proper functioning. The course covers basic histology and examines the following body systems: integumentary, muscular, skeletal, central nervous, and somatic nervous. The laboratory portion of the course includes microscopic study of tissues, detailed study of bone models and human cadaver muscles, and examination of preserved mammalian specimens. Interactive computer simulations of physiological processes are introduced. This is the first course in a two-semester sequence.

Pre-reqs:

Or Test & Score: HS Biology - 2

BIO101

BIO122 ANATOMY AND PHYSIOLOGY II

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This is the second course of a two-semester anatomy and physiology sequence, focusing on the influences of the autonomic nervous and endocrine systems upon the cardiovascular, lymphatic, respiratory, renal, digestive and reproductive systems. Introductory immunology, fluid/electrolyte, and acid-base balance concepts are included. The laboratory portion includes continued study of the human cadaver and preserved mammalian organs, additional interactive computer simulations of physiological processes, conduction of wet labs, and presentation of case studies which allow the student to compare and contrast normal physiologic mechanisms with basic pathophysiology.

Pre-reqs:

BIO121

Or BIO123



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Sciences

Biology

BIO123 PRIN OF HUM STRUCT AND FUN

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 4 Lab Hours: 3 Other Hours: 0

A one-semester accelerated anatomy and physiology course which introduces the human body at the chemical, cellular, tissue, organ and system levels of organization. Emphasis is placed on the relationships and maintenance of homeostasis between the systems. The laboratory includes microscopic study of tissues, detailed study of the human cadaver and preserved mammalian organs, conduction of wet labs, and the application of selected physiological processes.

Pre-reqs:

Or Test & Score: HS Biology - 2

BIO101

BIO124 HUMAN DISEASES

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course encompasses the etiology, pathogenesis, manifestations and basic treatment of diseases and disorders of the human body. Special attention is given to organic and infectious diseases as well as immune dysfunction and neoplasia. Case studies are utilized to gain an understanding of disease processes and treatments. TAG approved course - OHL019 effective Summer 2010.

Pre-reqs:

BIO122

Or BIO123

BIO125 MEDICAL TERMINOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

An introduction to medical word structure, including prefixes, suffixes, roots, plurals and abbreviations. Spelling, definitions and pronunciation are stressed and reinforced by frequent examination. TAG approved course- OHL020 effective Spring 2011

Pre-reqs:



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Sciences

Biology

BIO126 SCIENCE/ENERGY AND THE ENV

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Utilizing interdisciplinary and theme-based learning, this course examines major environmental and energy problems and evaluates possible solutions to those problems. Topics include biodiversity, human population growth, water, air, and soil pollution, and hazardous and solid wastes. Emphasis is placed on cooperative learning, analytical thinking and problem-solving as students examine environmental issues. Laboratory and field experiences reinforce the basic ecological principles. TMNS Approved effective Autumn 2008.

Pre-reqs:

BIO127 HUMAN BIOLOGY

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

Human Biology presents the human as an organism as it relates to itself, to other humans, and to the environment. Lecture will present the scientific study of the human body including the aging process. Observations about the human at the chemical, cellular and systemic levels will be made in the laboratory incorporating a variety of laboratory experiences and may include the observation of human cadavers and other preserved specimens as learning tools. Practical work and group learning strategies will be used to facilitate evaluative learning in both the lecture and lab. The course will guide the student in a multidisciplinary study of the biology of human life. TMNS Approved effective Autumn 2008.

Pre-reqs:

BIO128 CLIMATE STUDIES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introductory science course designed to familiarize students with the basics of climatology. The course focuses on the principles of the natural world and the dynamics of climate change. The impact of human activities on climate and the global system will also be explored. Real-world environmental data from the National Weather Service and historical climate records will be used to investigate, analyze, and interpret the effects of climate on our natural and human ecosystems.

Pre-reqs:



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Sciences

Biology

BIO129 METEOROLOGY

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introductory science course designed to familiarize students with the basic facts, theories, and methods relating to the study of meteorology. This course will focus on the principles of the natural world and the causes of weather. Students will apply these principles by analyzing and interpreting the effects of the atmosphere on our natural and human ecosystems using real-time data from the National Weather Service. This course will also analyze the effects of various human activities upon weather and the global system.

Pre-reqs:

BIO130 OCEAN STUDIES

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

An introductory science course designed to examine the world's oceans from an earth science perspective. Students will use real-world ocean information to explore the physical, chemical, biological, and geographical properties of oceans and investigate the interactions between the oceans and the hydrosphere, atmosphere, lithosphere, and biosphere.

Pre-reqs:

BIO141 GENERAL BIOLOGY I

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

Explores general biological structures and processes experienced by all living things. Topics include: Organization of life from sub cellular to systems homeostasis, how cells harvest energy and the fundamentals of molecular biology that drive genetic inheritance, evolution and population diversity. Supporting laboratory aligns with lecture topics and includes: quan/qual analysis of biomolecules, observing plant and animal cell structure and function, basic genetic analysis and examination of population dynamics. TAG approved course-OSC024-Biology Sequence, effective Spring 2008. TAG approved course-OSC003, Biology I, effective Spring 2008.

Pre-reqs:



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Sciences

Biology

BIO142 GENERAL BIOLOGY II

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

The topics for this course include: origins and biodiversity of life through an evolutionary survey of viruses, bacteria, plants and animals; the principles of biological classification; the identification and dynamics of biological ecosystems; and the design and reporting of biological research. The supporting laboratory aligns with lecture and topics include: examination and dissection of representative organisms to show evolutionary progression; exploration of phylogenetic concepts and analysis; and evaluation of local ecosystems to identify population dynamics and the effects of pollution. Students will work in groups to design, conduct, and report the results of a research experiment in an acceptable scientific format. TAG approved course-OSC024, Biology sequence, effective Spring 2008. TAG approved OSC004, Biology I, effective Spring 2008.

Pre-reqs:

BIO221 PRINC OF MICROBIOLOGY

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

This course examines microbial structure and function with particular emphasis on medical microbiology. Content includes taxonomy, identification procedures, microbial growth and control, microbial genetics and the epidemiology of common infectious diseases. The laboratory experiences include staining, culturing and aseptic techniques, as well as various diagnostic procedures. TMNS Approved effective Autumn 2008.

Pre-reqs:

BIO122

Or BIO123

Or BIO141

BIO222 PHARMACOLOGY

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

A course that introduces the student to general pharmacology, including drug nomenclature, classifications, and therapeutic and side effects on the body systems and functions.

Pre-reqs:

BIO122

Or BIO123



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Sciences

Biology

BIO241 GENERAL GENETICS

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

General Genetics uses the principles of Mendelian, molecular, and population genetics to explore the mechanisms of heredity. Topics include: the structure and function of genes, classical genetic transmission, eukaryotic and prokaryotic genetics, gene regulation and control, population genetics, gene mapping, and recombinant DNA technology. Supporting laboratory aligns with lecture topics and includes: basic genetic analysis, experiments in microbial and Drosophila genetics, quantitative and computer simulated analysis of population genetics and molecular genetics techniques. (TMNS, Effective Summer 2013)

Pre-reqs:

BIO141

BIO242 CELL AND MOLECULAR BIOLOGY

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

Cell and Molecular Biology will explore various principles of cell structure and function. Topics include energy and metabolism, protein structure and function, and the fundamentals of molecular biology that contribute to genetic inheritance and diversity within organism populations. A supporting laboratory aligns with lecture topics and includes observation of plant and animal cell structure, analysis of metabolic processes, analysis of genetic inheritance patterns and their influence on population diversity, and basic molecular biology techniques.

Pre-reqs:

BIO141

BST120 INTRO TO BIOTECHNOLOGY

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

This course will introduce students to the historical and technical concepts responsible for the rapidly growing biotechnology industry. Topics include the history of biotechnology applications such as pharmaceutical research and manufacturing, advancements in agricultural productivity as well as identifying the basic techniques and instrumentation used in these applications.

Pre-reqs:



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Biology

BST121 BASIC BIOTECHNOLOGY METHODS

Credit Hours: 1 Contact Hours: 2 Lecture Hours: 0 Lab Hours: 2 Other Hours: 0

Students will be exposed to and practice the various techniques used in a modern biotechnology lab. Such techniques include basic laboratory measurement and calculations(introducing micro- and nano- scale), pipetting, reagent preparation, detailed note taking, record keeping, etc. In addition, students will be taught to follow standard lab protocols to ensure good lab practices and adherence to basic governmental and safety regulations.

Pre-reqs:

BST120

Can be Taken Concurrently

BST122 ADVANCED BIOTECHNOLOGY METHODS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

This course expands on the techniques and protocols introduced to the students in BST121. Advanced biotechnology/bioscience techniques such as gel electrophoresis, centrifugation, cellular and molecular sample preparation and handling will be added, while comprehensively reinforcing and strengthening skills in the performance of basic techniques and protocols.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: Compass Algebra - 055

BST121

And MTH123

BST130 BIOTECHNOLOGY SEMINAR I

Credit Hours: 1 Contact Hours: 1 Lecture Hours: 1 Lab Hours: 0 Other Hours: 0

A seminar course presented in a "journal-club" format. Students will read and discuss articles covering the latest techniques and trends used in the biotechnology industry. Guest speakers will be invited to present overviews of their work to the group.

Pre-reqs:



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Sciences

Biology

BST221 CELL AND TISSUE CULTURE

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

Cell and tissue culture are two of the most widely used techniques in biotechnology. In this course students will cover the techniques used for maintaining living cells in culture: aseptic technique, counting cells, subculturing, cryopreservation (freezing) and thawing. Students will obtain hands-on training in all techniques listed above. Lecture and discussion sessions will include the techniques mentioned above as well as the following topics: cell culture equipment, contamination, optimization of growth conditions, recombinant DNA transfection and the future of tissue engineering.

Pre-reqs:

BST122

BST222 CELLULAR AND SUBCELLULAR SEPTN

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

Students will learn the various strategies and techniques used to purify and characterize biomolecules, with an emphasis on protein. Purification techniques to be employed in the lab include fractionation, centrifugation and low/high-pressure chromatography followed by characterization procedures such as electrophoresis and spectrometry.

Pre-reqs:

BST122

BST225 BIOTECHNOLOGY INSTRUMENTATION

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

This course will introduce students to the variety of instrumentation used in a biotechnology lab. Students will master the function and use of each instrument as well as proper maintenance, calibration, documentation techniques and protocols.

Pre-reqs:

BST122



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Biology

BST240 BIOINFORMATICS

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

Due to the large volume of data being generated and shared by the biotechnology community bioinformatics is an important biotechnology discipline. Utilizing computers, students will explore molecular geometric structure, sequence analysis, alignment and comparison, database mining and genome mapping.

Pre-reqs:

BST250 BIOPROCESSES AND MANUFACTURING

Credit Hours: 3 Contact Hours: 5 Lecture Hours: 2 Lab Hours: 3 Other Hours: 0

In this course students will learn the processes used for large scale biotechnology related production processes such as fermentation with a focus on regulatory and quality assurance aspects of this type of manufacturing, such as Good Lab Practices (GLP), Good Manufacturing Practices (GMP) and procedures/practices defined by the International Standards Organization (ISO).

Pre-reqs:

BST122

CST120 COMPUTATIONAL SCIENCE METHODS

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

The purpose of this course is to introduce the student to basic mathematical concepts relevant to computational science. The course will cover basic statistical analysis and mathematical operations as applicable to the study of science. Data analysis will include fitting data with mathematical functions and developing first and second order differential equations. Other topics relevant to computational science will also be presented, such as recognition of sources of computer error.

Pre-reqs:

MTH135

Can be Taken Concurrently



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Biology

CST121 MODELING AND SIMULATION

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 3 Lab Hours: 1 Other Hours: 0

Analyze a variety of scientific problems by designing a representative model, implement the model, complete a verification and validation process of the model, report on the model in oral and written form, and changing the model to reflect corrections, improvements and enhancements.

Pre-reqs:

MTH221

Or MTH223

CST221 COMPUTATIONAL BIOLOGY

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

This course is designed to introduce the student to the field of computational biology through the use of basic modeling and simulation modules utilizing existing computer programs. The course will incorporate mathematical methods and computer science skills to model simple biological life processes and simulate outcomes. The use of statistical analysis techniques will aid in the interpretation of data. Integration of lecture and computer lab time will allow for exploration of existing databases and model manipulation.

Pre-reqs:

CST121

EC0241 Ecology

Credit Hours: 4 Contact Hours: 6 Lecture Hours: 3 Lab Hours: 3 Other Hours: 0

This course will include topics that cover natural history and evolution, adaptations to the environment, population ecology, inter- and intra-species interactions, communities and ecosystems, and large-scale ecology including landscape, geographic, and global ecology. A supporting laboratory will apply lecture topics in laboratory and field experiences including ecological sampling and analyses, identifying, visiting, and evaluating local ecosystems, and analyzing current environmental issues such as global warming, habitat fragmentation and destruction, extinction of species, human population growth, and depletion of global natural resources. Students will learn about and apply the scientific method by conducting environmental research experiments.

Pre-reqs:

BIO142



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Sciences

Biology

GEO141 PHYSICAL GEOLOGY

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Investigation into the physical earth materials and processes. These processes include mineral formation, igneous rock and metamorphic deformation associated with plate tectonics, sedimentary rock formation and geologic time, geomorphology of the surface rocks through hydrologic processes including weathering, mass wasting and erosion. Emphasis on recognizing the impacts of earth science on society. Supporting lab to emphasize the use of technology in earth science, topographic and geologic map reading skills, and identification of minerals and rocks. TAG approved OSC011, effective Summer 2013

Pre-reqs:

SCI273 Special Topics in Science

Credit Hours: 3 Contact Hours: 9 Lecture Hours: 0 Lab Hours: 9 Other Hours: 0

A sophomore level science capstone course designed for students pursuing an Associate of Science Degree within one of the Sciences degree programs. This course will provide a cumulative experience where students can apply the scientific skills and knowledge gained in the program to perform an inquiry-based project. The exact location, scope of the project, and method(s) of evaluation will be provided in a contract drawn up between the student, the faculty mentor, and if applicable, the host internship supervisor. An emphasis will be placed on the individual interactions between the student and the faculty mentor and/or internship supervisor. All students are expected to apply and expand on their current scientific knowledge, while learning the basic skills involved in project management. Registration for this course requires sophomore standing.

Pre-reqs:

Chemistry

CHM101 INTRO TO CHEMISTRY

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

A problem-solving course to familiarize the student who has limited previous chemistry background with basic chemistry and mathematical skills. Course covers basic algebra skills, powers of ten (exponents), dimensional analysis, metric measurements and conversions, atomic theory, molecular structure, the periodic table and its uses, inorganic nomenclature, the mole concept, the gas laws and different types of solutions. The recitation portion of this class will involve pertinent problem-solving. TMNS Approved effective Autumn 2008.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: HS Chemistry - 2

Or Test & Score: Compass Algebra - 054

Or Test & Score: M093 Transfer Prof/Placement - 1

And Test & Score: M094 Transfer Prof/Placement - 1

Or MTH093

And MTH094



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Chemistry

CHM101 INTRO TO CHEMISTRY

Credit Hours: 4 Contact Hours: 4 Lecture Hours: 4 Lab Hours: 0 Other Hours: 0

A problem-solving course to familiarize the student who has limited previous chemistry background with basic chemistry and mathematical skills. Course covers basic algebra skills, powers of ten (exponents), dimensional analysis, metric measurements and conversions, atomic theory, molecular structure, the periodic table and its uses, inorganic nomenclature, the mole concept, the gas laws and different types of solutions. The recitation portion of this class will involve pertinent problem-solving. TMNS Approved effective Autumn 2008.

Pre-reqs:

MTH123

CHM121 GEN/ORG AND BIOL CHEMISTRY I

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Principles of general and inorganic chemistry are presented in lecture. Topics include atomic structure, chemical bonding and compounds, energy changes, gas laws, solutions, and acids and bases. The laboratory experiences include basic scientific measurements, physical property measurements, inorganic physical and chemical change observations and laboratory reporting. Ohio Transfer Module Approved Effective Autumn 2008.

Pre-reqs:

Or Test & Score: HS Chemistry - 2

CHM101

CHM121A GEN, ORG AND BIOL CHEMISTRY IA

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

A broad overview of inorganic chemical principles. Topics include significant figures, atomic structure, chemical bonding and molecular structure of inorganic compounds. TMNS approved Spring 2012.

Pre-reqs:

CHM101



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Chemistry

CHM121B GEN, ORG, AND BIO CHEMISTRY IB

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

A broad overview of inorganic chemical principles. Topics include energy changes, gas laws, solubility, solutions and acids and bases. TMNS approved Spring 2012.

Pre-reqs:

CHM121A

CHM122 GEN/ORG AND BIOL CHEMISTRY II

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

The course examines the structures, names, reactions and physical properties of the major groups of organic and biological compounds including alkenes, alkynes, aromatics, alcohols, ethers, aldehydes, ketones, carboxylic acids and esters and biological compounds including carbohydrate lipids, proteins and nucleic acid molecules. Basic metabolic reactions, including dehydration synthesis, hydrolytic digestion and biooxidations are described. Laboratory exercises demonstrate the properties and reactions of the compounds studied in lecture. TMNS Approved Effective Autumn 2008.

Pre-reqs:

CHM121

CHM141 GENERAL CHEMISTRY I

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

A broad overview of chemical principles and reactivity. Topics include atomic structure, chemical bonding and molecular structure, inorganic compounds, organic compounds, chemical periodicity, stoichiometry and nuclear chemistry. This course is Ohio TAG approved. OSC023 sequence & OSC008 Effective Summer 2008. OTM approved for TMS Spring 2011.

Pre-reqs:

Or Test & Score: HS Chemistry - 2

CHM101



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Chemistry

CHM141A GENERAL CHEMISTRY I A

Credit Hours: 2 Contact Hours: 3 Lecture Hours: 1 Lab Hours: 2 Other Hours: 0

A broad overview of chemical principles. Topics include significant figures, atomic structure, chemical bonding and molecular structure of inorganic compounds and stoichiometry. TMNS approved Spring 2012.

Pre-reqs:

CHM101

CHM141B GENERAL CHEMISTRY I B

Credit Hours: 3 Contact Hours: 4 Lecture Hours: 2 Lab Hours: 2 Other Hours: 0

A broad overview of chemical principles. Topics include thermochemistry, reactivity, organic compounds, chemical periodicity and nuclear chemistry. TMNS approved Spring 2012.

Pre-reqs:

CHM141A

CHM142 GENERAL CHEMISTRY II

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

A broad overview of chemical principles and reactivity. Topics include biochemistry, thermodynamics, chemical equilibrium, acid- based theories, solubility, electrochemistry, and chemical and biochemical kinetics. This course is Ohio TAG approved. OSC024 sequence & OSC009 Effective Summer 2008. Ohio Transfer Module Approved Spring 2012 TMNS.

Pre-reqs:

CHM141



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Chemistry

CHM241 ORGANIC CHEMISTRY I

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

A broad overview of chemical principles and reactivity of organic compounds. Topics include structure, bonding, nomenclature, reactions, reaction mechanisms, and synthesis of alkanes, alkenes, alkynes, alkyl halides, and aromatic compounds. Additional topics include stereochemistry and an introduction to spectroscopic techniques such as UV, IR, NMR, and mass spectroscopy. TAG OSC010 sequence approved Spring 2012.

Pre-reqs:

CHM142

CHM242 ORGANIC CHEMISTRY II

Credit Hours: 5 Contact Hours: 7 Lecture Hours: 3 Lab Hours: 4 Other Hours: 0

A continuation of the study of chemical principles and reactivity of organic compounds. Topics include structure, bonding, nomenclature, reactions and reaction mechanisms of aromatic compounds, alcohols, phenols, ethers, epoxides, amines, aldehydes, ketones, carboxylic acids and carboxylic acid derivatives. Additional topics include reactions and synthesis of biomolecules such as carbohydrates, amino acids, proteins, lipids, nucleic acids and synthetic polymers. The use of modern spectroscopic techniques such as IR, NMR, and mass spectroscopy also will be included. TAG OSC010 sequence approved Spring 2012.

Pre-reqs:

CHM241

CHM243 BIOCHEMISTRY I

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

This course will cover the biochemical mechanisms involved in chemistry of amino acids and proteins, human immune system, catalysis and enzymes, carbohydrate and glycogen metabolism, lipids and biological membranes, and energetics of metabolic reactions.

Pre-reqs:

CHM121

Or CHM141



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Chemistry

CHM244 BIOCHEMISTRY II

Credit Hours: 3 Contact Hours: 3 Lecture Hours: 3 Lab Hours: 0 Other Hours: 0

: As a continuation of Biochemistry I, CHM 243, this course will cover the biochemical mechanisms involved in the chemistry of amino acids metabolism, biosignaling, photosynthesis and CO₂ fixation, genetics, structure of nucleic acids, replication, transcription and translation processes, gene expression, recombinant DNA technologies and mutations.

Pre-reqs:

CHM243

Physics

PHY101 PRINCIPLES OF PHYSICS

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Survey course that assumes no familiarity with physics. Space, time, matter, motion, force, momentum, mechanical energy, heat, electricity, magnetism, light, units of measure and other concepts are studied descriptively. Basic calculation and problem-solving techniques are introduced, including a brief review of elementary algebra. Laboratory work emphasizes how to read measuring instruments, proper use of measured data in calculations, and how measured data can be used to test theories of physics. TMNS Approved effective Autumn 2008.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: ACT Reading - 18

Or Test & Score: Compass Algebra - 055

Or Test & Score: Compass Reading - 080

Or Test & Score: IDS Transfer Prof/Placement - 3

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

And IDS102

MTH093

And MTH094

Or MTH105

Or MTH106

Or MTH107

Or MTH108



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Physics

PHY105 Astronomy

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

This class is a study of fundamentals of astronomy. Topics include: the solar system, planets, stars, galaxies, and the universe. This course is a comprehensive survey of astronomy designed primarily for the non-science major. Pivotal discoveries discussed in class are reinforced through lab activities that replicate topic-related studies. This course should provide the student with an understanding of the nature of the universe and insight into the scientific fields that provide the evidentiary basis for modern cosmological theories.

Pre-reqs:

Or Test & Score: ACT Math - 22

Or Test & Score: ACT Reading - 14

Or Test & Score: Compass Algebra - 052

Or Test & Score: Compass Reading - 066

Or Test & Score: IDS Transfer Prof/Placement - 3

Or Test & Score: M093 Transfer Prof/Placement - 2

And Test & Score: M094 Transfer Prof/Placement - 2

And IDS102

 MTH093

And MTH094

Or MTH105

Or MTH106

Or MTH107

Or MTH108

PHY121 COL PHYSICS I W ALG

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

Study of motion, force, momentum, energy, mechanical advantage, structure and properties of matter, fluids, heat. Problem-solving in orientation, emphasizing the application of formulas, algebra, and trigonometry to physical situations.

Laboratories focus on the correct reading of measuring instruments, proper handling of measurement in calculations, and testing physical theories using measured data. TAG approved course- OSC021(Not for Physics majors) approved Spring 2008. TAG approved course - OSC014 (not for Physics majors) approved Spring 2008. TMNS Approved effective Autumn 2008.

Pre-reqs:

Or MTH125

And MTH130

 MTH135



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Physics

PHY121A COL PHYSICS IA W ALG

Credit Hours: 2 Contact Hours: 2.5 Lecture Hours: 1.5 Lab Hours: 1 Other Hours: 0

Study of motion and force. Problem-solving in orientation, emphasizing the application of formulas, algebra, and trigonometry to physical situations. Laboratories focus on the correct reading of measuring instruments, proper handling of measurement in calculations, and testing physical theories using measured data. TMNS approved Spring 2012.

Pre-reqs:

Or MTH125

And MTH130

MTH135

PHY121B COL PHYSICS I B W ALG

Credit Hours: 2 Contact Hours: 2.5 Lecture Hours: 1.5 Lab Hours: 1 Other Hours: 0

Study of motion, force, momentum, energy, mechanical advantage, structure and properties of matter, fluids, and heat. Problems-solving in orientation, emphasizing the application of formulas, algebra, and trigonometry to physical situations. Laboratories focus on the correct reading of measuring instruments, proper handling of measurement in calculations, and testing physical theories using measured data. TMNS approved Spring 2012.

Pre-reqs:

PHY121A

PHY122 COL PHYSICS II W ALG

Credit Hours: 4 Contact Hours: 5 Lecture Hours: 3 Lab Hours: 2 Other Hours: 0

General topics are waves, electricity, magnetism (including circuits), electromagnetic radiation (including light). Emphasis exercises and problem solving using formulas, algebra, and some trigonometry. Laboratories focus on the correct reading of measuring instruments, proper handling of measurements in calculations, and testing physical theories using measured data.

Pre-reqs:

PHY121



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Physics

PHY221 GEN PHYSICS I W CALC

Credit Hours: 5 Contact Hours: 6 Lecture Hours: 4 Lab Hours: 2 Other Hours: 0

Study of mechanics, heat and thermodynamics, oscillations and sound. Problem solving in orientation, emphasizing the application and derivation of formulas using calculus for physical situations. Laboratories focus on the correct reading of measuring instruments, proper handling of measurement in calculations, and testing physical theories using measured data. TAG approved Fall 2012 OSC016.

Pre-reqs:

MTH223

And MTH224

Can be Taken Concurrently

PHY222 GEN PHYSICS II W CALC

Credit Hours: 5 Contact Hours: 6 Lecture Hours: 4 Lab Hours: 2 Other Hours: 0

Study of electricity, magnetism, light, optics, and modern physics. Problem solving in orientation, emphasizing the application and derivation of formulas using calculus for physical situations. Laboratories focus on the correct reading of measuring instruments, proper handling of measurement in calculations, and testing physical theories using measured data. TAG approved Spring 2013 OSC017

Pre-reqs:

And MTH224

And MTH225

PHY221

Can be Taken Concurrently