

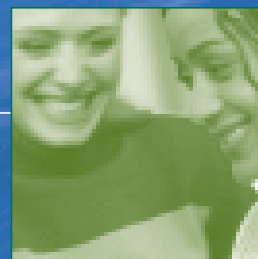


CATALOG 2005-2007

STARK STATE COLLEGE

Changing Lives...Building Futures

Business Technologies
Engineering Technologies
General Studies
Health Technologies
Information Technologies
Public Service Technologies



Stark State College

Changing Lives ... Building Futures

The College reserves the right to make changes in offerings, requirements and regulations subsequent to the publication of this Catalog.

A student accepted into a specific technology, and who is completing the coursework on a part-time or full-time basis after a lapse of years, should seek periodic counseling from the appropriate department head because program requirements may change.

Open Door Policy

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

Section 3345.06 of the *Ohio Revised Code* states, "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 technology 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 technology.

NOTICE TO STUDENTS: Due to the high cost of printing, the College can only provide students with one catalog free-of-charge. Please do not lose or destroy this catalog. It is to your benefit to make this Catalog your primary reference, retain it and make helpful notes in it.

Stark State College is committed to equal opportunity for all and does not discriminate on the basis of race, color, religion, ancestry, national origin, gender, age, disability or veteran's status.



STARK STATE COLLEGE

6200 Frank Ave. N.W. • North Canton, OH 44720-7299 • 330-494-6170 • 800-79-STARK
For our most current class schedule: www.starkstate.edu

STARK STATE COLLEGE OF TECHNOLOGY

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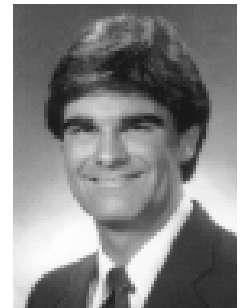
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STROHMENGER



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THOMAS, D.D.S.

Mission Statement

Stark State College will be a first choice in higher education and a catalyst for economic growth.

Vision Statement

Stark State College provides high-value, student-centered associate degrees and professional development. The College is dedicated to individual learning, transferable higher education and career success. We advance quality of life through accessibility and business and community partnerships.

Student Outcomes Assessment

Stark State College is committed to a process of assessment and validation of student learning through which programs of study are continually updated and improved. The College subscribes to development of the following competencies within all degree programs:

- written and oral communications
- computational skills, encompassing mathematical operations and data analysis
- computer applications
- critical thinking skills
- professionalism

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Welcome to Stark State College where we are *changing lives and building futures...your future.*

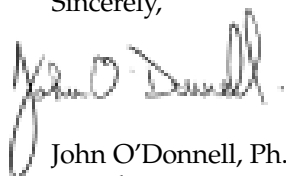
In looking at the Stark State Catalog, whether you are taking a first step to higher education, returning to Stark State for another semester, or transferring from another college, you are looking for information to match with your needs, goals, and aspirations. Stark State, one of the nation's fastest growing associate degree colleges, is meeting the needs of more and more students.

Students come to us for our associate degrees. In this catalog you will find a range of degrees that are geared to the needs of regional business and industry, resulting in an exceptional career placement rate for our graduates. Increasingly graduates are choosing to continue their education at a four-year college or university after earning their Stark State degree.

Whatever your academic goals, our commitment to you is a college experience characterized by the excellence of our academic programs and of our faculty and staff. We promise you a personalized college experience with small class sizes; we'll get to know you, your name, and your goals!

We look forward to having you at Stark State College where we'll help you define your pathway to academic and career success.

Sincerely,



John O'Donnell, Ph.D.
President



Administrative Officers



Thomas A. Chiappini
Vice President for
Business and Finance



John J. Kurtz
Vice President for
Information Technology
and Administrative
Services



Para M. Jones
Vice President for
Advancement and
Student Services

The College Profile

STARK STATE COLLEGE OF TECHNOLOGY

Changing Lives ... Building Futures

Stark State College, Ohio's largest technical college, offers certificates, associate degree programs, competency credentialing, continuing education, contract training and other opportunities for lifelong learning. Founded in 1960, Stark State provides an excellent education that prepares students for rewarding careers in business technologies, engineering technologies, health technologies, information technologies and public service technologies.

Stark State College is committed to providing the best education possible to meet the needs of a technologically sophisticated global economy. With experienced faculty, modern facilities and a belief in developing the skills of the individual, Stark State is positioned to provide a high-quality, high-tech education at affordable cost.

The College offers developmental education courses and tutorial services to strengthen basic skills and assist students in their learning.

Financial aid is available to students who qualify. The College's knowledgeable financial aid specialists help students explore the many grants, loans and scholarships that can help them finance their education.

The College provides the competitive edge in today's high-tech world by enabling students to attain their educational goals with a full schedule of credit and

continuing education classes. In addition, Stark State's Division of Corporate and Community Services provides customized contract training programs to area employers.

Stark State College has earned a reputation for excellence among local businesses and industries. This reputation for excellence has helped Stark State become the largest college in Stark County – with more than 6,300 credit and over 3,000 non-credit students.

The College has played a vital role in the economic growth and development of the greater Stark County area through its strong tradition of providing educational and training services to employers and residents.

Stark State College of Technology is accredited by The Higher Learning Commission of the North Central Association of Colleges and Schools.

In addition, many individual technologies are accredited and licensed by their professional accrediting associations and organizations.

Stark State's beautiful campus is conveniently located off I-77 to serve students commuting from Stark, Summit, Tuscarawas, Portage, Carroll, Holmes, Wayne, Medina and Columbiana counties. Stark State College provides access to education for students of all ages and backgrounds.

ADVISORY COMMITTEES

Each of the technology programs at Stark State is developed and kept current through the efforts of advisory committees. Comprised of outside leaders in that particular field, members of advisory committees share their expertise and experience with College faculty and staff to help keep the curricula current and relevant. Every degree program seeks the guidance of its advisory committee whenever a new program is developed and when an existing program needs to be modified or updated. With regular input from our advisory committees, Stark State College assures that the education students receive is current, relevant and independently validated.

Accreditations

STARK STATE COLLEGE OF TECHNOLOGY IS ACCREDITED BY: The Higher Learning Commission of the North Central Association of Colleges and Schools, 30 North LaSalle Street, Suite 2400, Chicago, IL 60602-2504 • 312-263-0456 or 800-621-7440 • www.ncahigherlearningcommission.org

Business Technology Accreditations

AUTOMOTIVE TECHNOLOGY *Accredited by the National Automotive Technicians Education Foundation (NATEF):* National Automotive Technicians Education Foundation, 13505 Dulles Technology Drive, Suite 2, Herndon, VA 20171-3421 • 703-713-0100 • www.natef.org

ACCOUNTING AND FINANCE TECHNOLOGY, ADMINISTRATIVE INFORMATION TECHNOLOGY, MANAGEMENT AND MARKETING. These programs are candidates for accreditation by the Association of Collegiate Business Schools and Programs, 7007 College Boulevard, Suite 420, Overland Park, KS 66211 • 913-339-6226 • info@acbsp.org • www.acbsp.org

INFORMATION REPORTING TECHNOLOGY *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.

Health Technology Accreditations

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.oda.org.

FIRE/EMERGENCY MEDICAL *All accreditation in these two areas are 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 TECHNOLOGY *The health information technology program is accredited by the Commission on the Accreditation of Allied Health Education Programs (CAAHEP) in cooperation with the American Health Information Management Association's Council on Accreditation:* CAAHEP, 35 E. Wacker Drive, Suite 1970, Chicago, IL 60601-2208 • 312-553-9355

MASSAGE THERAPY CERTIFICATE PROGRAM - ASSOCIATE OF TECHNICAL STUDIES IN MASSAGE THERAPY *Approved by the State Medical Board of Ohio:* State Medical Board of Ohio, 77 S. High Street, 17th Floor, Columbus, OH 43266 • 614-466-3934

Accreditations *(Continued)*

Health Technology Accreditations *(continued)*

MEDICAL ASSISTING *The Commission on Accreditation of Allied Health Education Programs (CAAHEP) grants accreditation to programs in Medical Assisting upon recommendation of the Curriculum Review Board of the American Association of Medical Assistants' Endowment (CRB-AAMAE):* CAAHEP, 35 E. Wacker Drive, Suite 1970, Chicago, IL 60601-2208 • 800-228-2262

OPHTHALMOLOGY ASSISTANT *Accredited by the Committee on Accreditation for Ophthalmic Medical Personnel (CoA-OMP), a sponsor committee of the CAAHEP system,* 2025 Woodlane Drive, St. Paul, MN 55125-1992 • 800-284-3937

MEDICAL LABORATORY TECHNOLOGY *Accredited by NAACLS (National Accrediting Agency for Clinical Laboratory Sciences):* National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), 8410 West Bryn Mawr Avenue, Suite 670, Chicago, IL 60631-3415 • 773-714-8880

NURSING *Full approval from the Ohio Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC):* National League for Nursing Accrediting Commission, 61 Broadway, 33rd Floor, New York, NY 10006 • 800-669-1656.

OCCUPATIONAL THERAPY ASSISTANT TECHNOLOGY *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.

PHYSICAL THERAPIST ASSISTANT TECHNOLOGY *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

RESPIRATORY CARE TECHNOLOGY *The respiratory care technology program is accredited by the Committee on Accreditation for Respiratory Care:* Committee on Accreditation for Respiratory Care, 1248 Harwood Road, Bedford, TX 76021-4244 • 817-283-2835 • www.coarc.com.

Engineering Technology Accreditations

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

Public Service Technologies Accreditations

EARLY CHILDHOOD EDUCATION *Accredited 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

Admission to the College

All individuals interested in pursuing an education at Stark State College of Technology are welcome to apply. A candidate working toward an associate degree should be a high school graduate or the equivalent (successful completion of the General Educational Development [GED] equivalency) to assure successful completion of the program. An application for admission, which may be obtained online, will be mailed upon request or can be picked up at the Office of Admissions/Student Services.

ADMISSION PROCEDURES

Credit classes begin each August. Applications, however, are accepted throughout the year. The following procedures should be followed:

1. Submit an application form, which may be obtained at the College, from high school guidance counselors, or online at www.starkstate.edu.
2. Provide the Registration Office with an official final transcript of your high school records and GED scores, if applicable. This may be done through the high school guidance office.
3. Provide the College with the results of the ACT or SAT testing program by requesting that they be sent directly to the College by the testing service. This requirement is waived for students in the continuing education (non-credit) program.
4. The College's assessment program assists students in the registration process and helps assure the best placement for academic success. All students must complete the assessment process for advising purposes. Assessment may include transcript evaluation and/or completion of the computerized COMPASS Placement Assessment in English, reading and math.
5. A personal interview may be requested in cases where other screening procedures do not provide sufficient information.
6. Students who have attended another institution must request copies of transcripts be sent directly to the College.
7. Students seeking admission to a health technology program must complete a separate health application.

STUDENT ACCESS WEB SITE

Students can now register for classes, monitor their financial aid and make tuition payment via the Web using this interactive and secure Web site.

The Student Access Web site is a one-stop resource where students can:

- search for course offerings and view course descriptions and prerequisites,
- register for classes and drop/add classes,
- pay tuition and fees on-line using a credit card,
- view their financial aid awards,
- view their class schedule and tuition information,
- use Degree Audit to monitor progress toward a degree, and perform "what ifs" on changing their academic major,
- view grades
- access National Clearinghouse
- review the Course Applicability System (CAS)
- and purchase books.

To access the Student Access Web site go to www.starkstate.edu/student or click on the Student Web Access link on the College's Internet site at www.starkstate.edu. The Student Access Web site is accessible daily between 7 a.m. and midnight.

Additional links, including student email, are also available.

Note: NEW students must enroll in-person for classes.

TRANSFER APPLICANTS

Coursework from other regionally accredited institutions of higher education designated in the *Transfer Credit Practices of Designated Educational Institutions of the American Association of Collegiate Registrars and Admission Officers*, will be evaluated upon receipt of an official transcript and at the written request of the student. Grades of at least "C" quality must have been earned in any course to permit acceptance of credit. Transcripts are not automatically evaluated for transfer of credit.

GUEST STUDENT

A guest student is a student who plans to enroll at Stark State College on a temporary basis. Please follow the steps listed below to complete the admissions process:

1. Complete a Stark State College application. The application is available online or by contacting the Student Services/Admissions Office at 330-966-5450.
2. Receive academic advising and approval from home institution for course(s) planned for enrollment at Stark State College.
3. Submit written approval from home institution to Stark State College Registration Office indicating the course(s) for enrollment. Bring approval form at time of registration.
4. Meet with a Stark State College admissions counselor to review enrollment process.

Please contact the Student Services/Admissions Office at 330-966-5450 with questions.

INTERNATIONAL STUDENT ADMISSIONS

Stark State College of Technology 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. A score of 500 or greater on the written *Test of English as a Foreign Language (TOEFL)* or 173 on the *Computer-Based Test* is considered as adequate proof of language proficiency. 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, New Jersey 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 proved by a certified copy of the document and a translated copy where the original is not English.
 - 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.

FULL-TIME STUDENT

A full-time student is considered to be any student who is officially enrolled at Stark State College of Technology and taking a minimum of 12 semester hours of coursework.

PART-TIME STUDENT

Any person meeting the qualifications for admission to the College may enroll as a part-time student. A student enrolled in 11 semester hours of coursework or less is considered a part-time student.

STUDENT I.D. CARDS

Identification cards will be mailed to all students enrolled at the College. This card also serves as the student's library card. Students are expected to carry I.D. cards at all times. Loss or theft of an I.D. card should be reported to the Registration Office.

VETERANS EDUCATIONAL BENEFITS

Stark State College is fully accredited under the laws that provide educational benefits for veterans. The Registration Office certifies veterans' eligibility.

ACADEMIC ADVISING

The academic advising process at Stark State College of Technology 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. 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 19 or more credit hours must meet with the Vice President for Instructional and Corporate Services.

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.

EARLY ALERT

Any student whose work is unsatisfactory (below "C" level) will receive an "early alert" letter from the Registration Office during the beginning of the sixth week of the semester to help the student improve his/her academic performance. The letter will advise the student to consult with his/her instructor, who may assist the student in improving academic performance and/or refer him/her to appropriate support services. The "early alert" letter is *not* part of the student's permanent academic record.

LEARNING SUPPORT SERVICES

Learning Support Services provides a variety of instructional and counseling support programs to assist students, faculty and staff in achieving their academic, career and personal goals here at Stark State College. The following services are offered:

BRIDGE (Building Relationships, Integrating Divisions, Generating Excellence)

BRIDGE is a faculty team that conducts the College in-class portion of the assessment program and creates on-going opportunities for faculty development. Each semester, certain faculty members participate with their students in activities to assess students' general skill levels and to assist teachers in improving in general skills instruction across all divisions of the College. These activities are held in a sampling of all departmental classes; therefore, students may participate in one or more of these sessions during their time at Stark State.

CAL Lab (Center for Accelerated Learning)

CAL helps students meet their academic goals by providing a collection of educational services in a comfortable setting. These services include computer-based instruction and tutorials, video instruction, word processing, peer and faculty tutoring, and Internet access. Instructional technicians are available to assist students. All services are designed to directly support selected courses for both students and faculty. There are no charges or appointments for using the CAL Lab.

Computer-Based Testing Center

Some courses provide students with computer based testing. This allows students in those courses to take tests outside of class in the Testing Center within a timeframe of usually three to four days. This service allows for more instructional time in class and also provides the students with an opportunity to become familiar with this technology. This is an additional advantage for students, as many licensure exams are now computer-based.

Displaced Homemakers

The Displaced Homemaker Program offers assistance with the college admission process, enrollment, and book funds through a grant from The Ohio Board of Regents. A "displaced homemaker" is a person who is widowed, separated, divorced, married to a person with a disability, or a single parent.

FLEX (Foundations for Learning EXcellence)

FLEX is a three-credit-hour course offered through Learning Support Services that includes language, math and college success skills. Students who will benefit from a rigorous, intensive brush-up in these areas are encouraged to enroll in the FLEX course. At the end of the semester, students will be assessed as to basic competencies, with the possibility of testing out of basic skills courses in math, English and reading.

Returning to Learning Workshop

To address the concerns of students returning to an academic environment, Learning Support Services offers transitional support through the "Returning to Learning Workshop." Participants attend three sessions, which assist with the admissions and enrollment process, stress and time management within the framework of being a college student, and classroom success skills.

"The Sounding Board" Educational Counseling

Students and Stark State employees may receive free short-term educational counseling services through the Learning Support Services Office. Facilitators provide counseling, crisis intervention, and support groups for issues which affect academic and professional success. Information of specific personal needs is addressed in special-topic focus groups throughout the year.

Since Learning Support Services is a part of the instructional arm of the College, innovations in programming, such as summer workshops to assist in preparing for college entry, are provided as a means of consistently enriching the support offerings at Stark State College.

TUTORING SERVICE

Successful completion of any college curriculum requires a mastery of the fundamental mathematics and language skills, as well as basic study skills. Yet, many college students lack proficiency in one or more essential areas. Stark State College will provide tutoring service at a minimal charge to students who need additional help to maintain a satisfactory average. These services are offered by the developmental education department.

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 the student's transcript after the student successfully completes 12 hours at Stark State College of Technology, if credit is awarded. Successful completion is defined as a "C" or better. Students wishing more information should 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. A maximum of 12 credit hours may be taken by examination without prior approval of the Board of Trustees. 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 330-966-5450 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 330-966-5450 for additional information.

Area high school students enrolled in vocational and technical programs may qualify for advance placement at Stark State College of Technology. Please call our Office of Admissions/Student Services at 330-966-5450 for more information.

EARLY COLLEGE ADMISSION POLICY

Stark State College's early college admission program is designed to provide qualified high school students with access to college-level coursework. College courses taken under the early college admission program may also fulfill high school graduation requirements, if approved by the student's local school district.

Participation in the early college admission program at Stark State College is not intended to replace high school coursework, but rather to enhance educational opportunities available to high school students. For additional information, contact the Office of Admissions/Student Services at 330-966-5450.

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 Review 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.

ACCESS TO STUDENT RECORDS

All information entered in a student's file is available for inspection by that student upon presentation of appropriate college identification except that information described in Sections 9.411, 9.412, 9.413 and 9.414 of the *Policies and Procedures* as adopted by the Board of Trustees of Stark State College.

PROCEDURE TO INSPECT AND REVIEW RECORDS

Students may request, in writing, the opportunity to inspect and review their records. The request should be made to the registrar and must specify records to be inspected and reviewed. Requests will be granted within a reasonable period of time, but such time is not to exceed 45 days after the request has been made.

Records will be inspected and reviewed by the student in the presence of the chief administrator of the department or the student's designee. Records may not be changed or deleted during the process of inspection and review. Students shall be advised of the right to challenge and the procedure to challenge any portion(s) of the student's College record. Upon written request, the student shall be provided with a copy of that portion(s) of the student's college record subject to challenge.

HEARING TO CHALLENGE CONTENT OF RECORDS

Students shall have an opportunity for a hearing to challenge the content of their College records, to ensure that the records are not inaccurate, misleading, or otherwise in violation of the privacy or other rights of students, and to provide an opportunity for the correction or deletion of any such inaccurate, misleading, or otherwise inappropriate data contained therein.

RELEASE OF STUDENT RECORDS TO EXTERNAL AGENCIES

Information will not be released from a student record or file to external agencies or persons without the express written consent of the student, except as provided by Section 438(b) (1) of *Public Law 93-380*.

DISSEMINATION OF INFORMATION CONTAINED IN SECTION 9.4

Copies of Section 9.4 (the guidelines which describe the College's policy on student records) of the *Policies and Procedures* as adopted by the Board of Trustees of Stark State College of Technology shall be made available by the Office of Admissions/Student Services to any student desiring the same.

STUDENT CONDUCT

When a student enters Stark State College of Technology, 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 RESPONSIBILITY

Each student is responsible for complying with the regulations in this catalog and with other regulations of the College. Class schedule information is a supplement to the College catalog and is also an official statement of policy.

STUDENT GRIEVANCE

Stark State College has a formal process for student grievances. The process must begin within 15 school days of the occurrence. A copy of the student grievance procedure may be obtained in the Office of Admissions/ Student Services.

GRADE APPEAL PROCEDURE

Students who wish to appeal a grade must initiate the process within 10 school days of the time the grade has been assigned. Students should first discuss the matter with the instructor. If the matter cannot be resolved, the student may initiate the formal grade appeal process. A copy of the grade appeal procedure can be obtained in the Office of Admissions/Student Services.

CIVIL RIGHTS COMPLIANCE COORDINATOR

The dean of student services serves as the Title IX and Section 504 Coordinator for Stark State College. The dean handles all student grievances in accordance with the Title IX and Section 504 regulations which incorporate appropriate due process standards and provides for the "prompt and equitable resolution of complaints" filed on the basis of sex and/or disability.

COMPUTER LAB USAGE GUIDELINES

The 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.

Copies of the complete set of *Computer Lab Usage Guidelines* are available from the Office of Admissions/Student Services or from the staff of any of the computer labs.

DISCRIMINATION GRIEVANCE PROCEDURE

Students at Stark State College who feel they are victims of discrimination on the basis of sex, disability, age, race or color may file a complaint with the College's civil rights compliance coordinator (330-494-6170, Ext. 4364) or the Office of Civil Rights, Cleveland Office, U.S. Department of Education, 600 Superior Avenue East, Suite 750, Cleveland, OH 44114-2611. Copies of the detailed *Grievance Procedure for Complaints Concerning Discrimination* are available to students upon request in the Office of Admissions/Student Services (Room S305).

STUDENT DIRECTORY INFORMATION

The following categories of information have been designated as directory information: name; address; telephone number; major; and academic honors. The College will consider it acceptable to release this information without specific prior written student consent unless written notice is made to the Registration Office that any or all of the information designated should not be released without the student's prior consent.

SEXUAL ASSAULT POLICY/ CAMPUS CRIME ACT

At Stark State College, we take pride in the reputation we've established as a safe, secure campus. We worked hard to earn that reputation, and we will continue to work hard to maintain that reputation for the sake of our students, employees and the community. The College will not tolerate sexual assault of any kind. Sexual misconduct is socially irresponsible and violates the rights of the individual. No one has the right to assault someone else regardless of what a person says, does or wears. Sexual assault is a crime and will be dealt with accordingly.

The College has developed a policy to deal with sexual assault, including measures anyone can use to prevent or minimize their risk. For complete details on the College's policy, procedures and recommendations, as well as to review the College's overall crime statistics, please check with the campus Security Office (Room S104).

STUDENT SUBSTANCE ABUSE AND PREVENTION POLICY FOR STUDENTS

Details regarding the policy are on pages 32 and 33 of this catalog, in the *Student Handbook*, and in the class schedule published each semester.

Student Services

Services of a non-instructional nature are provided by the Office of Admissions/Student Services. Stark State College faculty and staff support the philosophy, objectives and goals of the College. In its 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.

CAREER PLANNING SERVICES

Career Guidance Program

Stark State College offers a career guidance program to assist individuals in clarifying their goals. The goal of the program is to help a person select a career field that is realistic, marketable and adaptable. This program is offered free of charge to students and/or anyone in the community who is undecided about career choices.

Career Center Information

As a service to students, the Career Center provides:

- information on many employers for pre-interview research.
- information on various careers in the form of publications and videos.
- current information on the job search. Material includes resumes, cover letters, interviewing and other related topics.
- computerized career planning system (DISCOVER).

EMPLOYMENT SERVICES

Professional Work Experience

The Career Services Office works with students to help match them with employers for professional work experience opportunities. Students should have a minimum GPA of 2.00, sophomore standing and have relevant coursework completed in their major. This program is designed to help students obtain experience in their field while they are going to school. The Professional Work Experience program is offered in most of the two-year programs in the business and engineering technology divisions at Stark State.

Students interested in the professional work experience program may register by completing an application and providing a transcript and their resume. This information will be kept on file in the Career Services Office. Selection of students for employment is done through a formal interview process by the employer. For further information, contact the Career Services Office at 330-966-5459.

Resume Referral Service

Job search assistance is offered to graduates and alumni who are seeking employment. A resume referral service is available to employers who have individual positions open. Employers are also encouraged to interview potential candidates on campus during recruiting season. Potential graduates and alumni are encouraged to register with the resume referral service.

Part-time/Student Jobs

For current students, a job bulletin board is available which displays part-time and full-time student jobs.

Job Search Assistance

The Career Services Office provides assistance on all aspects of the job search, including help with resumes, cover letters and interviewing.

COUNSELING SERVICES

Students are encouraged to make full use of counseling services. The counseling staff assists students with educational goals and with personal concerns that might affect academic progress in college. Contact the Office of Admissions/Student Services at 330-966-5450 for more information.

STUDENTS WITH DISABILITIES

Stark State College provides assistance to students with disabilities in order to maximize educational opportunities and individual potential. The disability support services coordinator assists students with disabilities by providing academic support services; admissions procedures; financial aid information; and academic, personal and career counseling. The campus includes many accessible features, such as adapted restrooms, electric doors, handicapped parking (by permit) and Braille tactual room signs. The College's disability support services coordinator coordinates various services with academic and non-academic offices and serves as a liaison between the College community and state/local agencies. Students must inform the disability support services coordinator of their need for accommodations prior to the start of their coursework. Students must provide documentation of their disability, test reports and school records to help the disability support services coordinator provide appropriate academic accommodations and support services. A pre-admission interview prior to applying to the College is suggested. Please call the Office of Admissions/Student Services at 330-966-5451 (voice or TDD) for information or to schedule an interview.

MULTICULTURAL SERVICES

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 counselor for minority recruitment and retention is available to provide:

- academic, personal and group counseling.
- referrals for scholarships, financial assistance, career counseling, tutoring, mentoring and internship programs.
- coordination of various services with academic and non-academic Stark State offices.

Other support activities include:

- coordinating communications between the student services office and the multicultural student community.
- liaison between SSCT and various community agencies.
- promotion of cultural diversity programs.

To schedule an appointment, please call the Office of Admissions/Student Services at 330-966-5450.

STUDENT HEALTH INSURANCE

Students may subscribe to the student health group insurance plan. This is a voluntary program to provide hospitalization insurance to those students no longer covered by their parents' policy. Information is available at the Cashier's Office and the Office of Admissions/Student Services.

FINANCIAL AID

The Financial Aid Office provides assistance with financial aid applications and filing dates, estimation of cost and needs analysis and information concerning scholarships, grants-in-aid, federal and state financial assistance programs and part-time employment.

Every student should have a sound plan for acquiring a college education, including financial arrangements, worked out well in advance. It is advisable for a student in need of financial assistance to discuss his/her situation personally with a financial aid specialist as early as possible.

Student Activities/Facilities

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: inter-club council, student clubs and other worthwhile and interesting events.

ORIENTATION

The College provides an orientation program to help new students understand and adjust to college policies, services, faculty and programs. Registered students are notified of the date and time of orientation.

WEB CT ORIENTATION (WEB-BASED COURSES)

Students enrolling in Web-based courses for the first time are urged to attend one of the WebCT Orientation sessions published each semester in the College class schedule and on the Web site. These sessions will include information about course expectations, logging on, discussion features, email and chat rooms. The sessions also provide students with "hands-on" experience with WebCT software.

STUDENT EMAIL

All Stark State College students who are registered for at least one credit course in an academic year (fall semester through summer sessions) will be provided a College email account for that academic year. Students can use their email accounts to send or receive email from any computer that has access to the Internet including a home computer or a computer in the College's open lab. All students will be assigned a permanent account name and password. To access student email, type in <http://email.starkstate.net> in the browser's address box or follow the links from the College's main Internet site at www.starkstate.edu. All student email directories and accounts will be regenerated prior to the fall term each year. There are restrictions on the availability, capacity, duration and use of student email accounts and students are expected to abide by the College's computer use policy. For additional information please go to <http://email.starkstate.net>.

PHI THETA KAPPA HONOR SOCIETY

Phi Theta Kappa is an international honor society for two-year colleges which is similar in structure and operation to Phi Beta Kappa at four-year institutions of higher learning. Phi Theta Kappa provides its members with opportunities in the areas of scholarship, leadership, service and fellowship. The society has over 1.5 million members and more than 1,200 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.

STUDENT ORGANIZATIONS

An elected inter-club council plans and coordinates extracurricular programs and social affairs for students.

The inter-club council assists the College faculty and administration in making rules and regulations by providing student opinion and advice.

SOCIAL ACTIVITIES

Stark State College offers students a wide variety of activities. Student clubs include:

- American Society of Mechanical Engineers (ASME)
- American Society of Civil Engineers (ASCE)
- Animation Club, Association for Medical Laboratory Technicians (AMLT)
- Association of Information Technology Professionals (AITP)
- Business Leaders at Stark State College, Environmental Club
- Institute of Electrical and Electronic Engineers (IEEE)
- Institute of Management Accountants (IMA)
- InterClub Council (ICC)
- International Association of Administrative Professionals Student Chapter
- International Club
- Minority Awareness Association (MAA)
- Phi Theta Kappa International Honor Society
- Respiratory Care Club
- Ski and Snowboarding Club
- Society of Manufacturing Engineers (SME)
- Society of Women Engineers (SWE)
- Stark State College Association of Medical Assistants
- Student Ambassador
- Student Association of Dental Hygiene Association (SADHA)
- Student Health Information Management Association (SHIMA)
- Students in Human and Social Services Technology Association
- Student Informer, Student Nurse Association – Stark State College (SNA)
- Student Occupational Therapy Assistants Club (SOTA)
- Student Physical Therapy Assistant Club (SPTA)
- Students in Human and Social Services Technology Association.

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 adjacent to the campus.

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. Center hours are Monday through Friday, 7 a.m. to 6 p.m. Children may be enrolled by the semester. The center is located at the John Knox Presbyterian Church, 5155 Eastlake N.W., across from the campus. For child care registration and information, call 330-499-0909.

STARK CAMPUS LIBRARY

Stark State College of Technology and Kent State University Stark Campus share a campus library (the Learning Resource Center – LRC) to serve the needs of students at both institutions. In addition to in-house book, periodical, reference, video and CD holdings, the library offers students online access to the Internet, Kent State University's main library and all branch libraries, as well as access to many university libraries through OhioLINK. During academic semesters, the library is open Monday through Thursday from 8 a.m. to 10 p.m., Friday from 8 a.m. to 5 p.m., Saturday from 9 a.m. to 3 p.m., and Sunday from 1 p.m. to 5 p.m. During academic breaks, the library is open Monday through Friday from 8 a.m. to 5 p.m. Please call 330-499-9600 for library information.

STARK STATE BOOKSTORE

Textbooks, supplies and retail items are available in the bookstore. The bookstore is open during all hours of registration. Regular bookstore hours are: Monday through Thursday, 8:30 a.m. to 8 p.m. and Friday, 8:30 a.m. to 4 p.m., or as posted. The bookstore may be accessed online at www.starkstate.edu/campusinfo/bookstore.htm.

DENTAL HYGIENE CLINIC

As part of the dental hygiene degree program, Stark State College operates a Dental Hygiene Clinic that provides a full range of preventive services, including dental examinations, cleaning and polishing of teeth, oral health instruction, x-rays, fluoride treatments, sealants and more.

The Dental Hygiene Clinic has 10 state-of-the-art operatory stations equipped with the latest dental hygiene technology. The clinical experience is a key element of our dental hygiene degree program. All students work under the direction of licensed dental professionals to ensure the quality of services and the comfort of our clinic patients.

Free parking for clinic patients is available adjacent to the clinic entrance. To schedule an appointment or for more information about dental hygiene services, call 330-305-6610. For information about the dental hygiene degree program, call the Office of Admissions/Student Services at 330-966-5450.

MASSAGE THERAPY CLINIC

The Massage Therapy Clinic at Stark State College provides full body relaxation massages to students, faculty and the general public for a nominal fee. Massage is given by students under the direction of the clinic supervisor in the private student clinic.

Free parking is available for clinic clients. Hours vary each semester due to student availability. To schedule an appointment, for more information about clinic services or to purchase gift certificates, call the clinic supervisor at 330-966-5458, Ext. 4725. For information about the massage therapy program, call 330-966-5458, Ext. 4545.

RALPH REGULA WELLNESS AND THERAPY CENTER

The mission of the Ralph Regula Wellness and Therapy Center has two components. One component is to provide instructional laboratory facilities for occupational therapy assisting and physical therapist assistant programs. The other component is to provide integrated learning experiences for health technology students through a variety of programs and projects, including delivery of services to the community in partnership with other institutions and health care organizations.



The Stark County College Tech Prep Program

As we enter the 21st century, our state and national economies will need many more highly skilled technical workers. These important, good-paying jobs will require more than a high school education. This means that many more young Americans will need to prepare to go to college – particularly into the technical programs that lead to an associate degree and beyond.

College Tech Prep is a new way of doing business in our high schools and colleges. The goal is to prepare young people for the growing number of technical jobs in the future. College Tech Prep high school students

- learn college preparatory academics in applied, real-world contexts that make the content more meaningful and accessible to them;
- develop technological literacy, including the “new basics” of computer usage; and
- in 11th and 12th grade, immerse themselves in the foundation occupational skills needed to enter and succeed in college and in a career.

At the end of high school, College Tech Prep graduates are ready to choose a technical major and enter an advanced skills technical associate degree program with an array of stronger basic and occupational skills than graduates of general education or college prep programs. There are also articulation agreements in place with many colleges and universities where students may earn college credits while in high school and/or may transfer credits earned in their associate degree toward a bachelor’s degree.

In our area, the Stark County College Tech Prep Consortium partners Stark State College of Technology with all public school districts in Stark County. The Consortium, which originated in 1992, is a dynamic initiative that continues to evolve and grow in terms of its district partnerships and scope of programming.

In 1995, the Consortium was the recipient of the prestigious “Ohio’s BEST Practices” award, sponsored by the Ohio Business Roundtable. The goal of Ohio’s “BEST” is to search out exemplary, innovative education programs with proven success and share their stories with education stakeholders statewide.

In 1999, the Consortium was the National Tech Prep Network’s (NTPN) Exemplary Worksite Learning Award first-place winner in the nation. The Consortium was recognized for excellence in the areas of program overview, professional development, business involvement and results.

Stark County’s College Tech Prep program is a partnership among students, parents, Stark County high schools, Stark State College, other colleges and universities, labor, local businesses and industries.

The Consortium has implemented the following programs:

Business Technologies

- E-commerce Marketing Technologies at GlenOak High School and Massillon Washington High School
- Information Reporting Technologies at Perry High School
- Legal Studies at Jackson High School

Engineering Technologies

- Automotive engineering technologies at Canton South High School, Jackson High School and Timken High School
- Electrical/electronic engineering technologies at Perry High School
- Engineering technologies at GlenOak Career Center
- Heating, ventilation, air conditioning/refrigeration at R.G. Drage Career Center
- Manufacturing engineering technologies at Massillon Washington High School
- Construction Technologies at Jackson High School
- Pre-Engineering Technology (Project Lead the Way) at Timken High School and Hoover High School

Fire Science/Emergency Medical Service Technologies

- GlenOak Career Center and Stark State College

Health Technologies

- GlenOak Career Center, Perry High School and Timken High School

Information Technologies

- Information systems technologies at R.G. Drage Career Center
- CISCO computer networking technologies at R.G. Drage Career Center
- Computer Networking/Electronics at East Canton High School
- Programming and Information Development (P.A.I.D.) at Canton South High School
- Video Game Design at Timken High School

Interactive Media Technologies

- GlenOak Career Center, Massillon Washington High School, and Sandy Valley High School

Horticulture and Natural Resources Technologies

- Horticulture Technologies at Jackson High School and Marlington High School
- Natural Resources Technologies at Marlington High School

Education Technologies

- Career Paths for Teaching Professionals at Massillon Washington High School

Additional programs are currently being developed and will be available in the near future.

Students from all Consortium high schools are eligible to apply for admission to these high school programs on a tuition-free basis. Successful completion of the high school portion of this program presents the possibility of special consideration for entry into specific programs or classes at Stark State College.

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.

All students are advised to complete the following steps when applying for financial aid:

1. Apply for admission. This enables us to establish a computer file for you.
2. Obtain the financial aid packet from our Financial Aid Office.
3. Complete the *Free Application for Federal Student Aid* (FAFSA), and the Stark State College *Institutional Financial Aid Form* (IF) by May prior to the fall semester for which you are enrolling.
4. If you are transferring from another college, your financial aid available at Stark State may be limited.
5. Respond quickly to any request for additional information from our Financial Aid Office.
6. You will receive a financial aid award notification from the Financial Aid Office, indicating the amount of aid you are eligible to receive. If you are eligible for a loan, you will receive instructions with the notification on how to apply for the loan.
7. If you decide to accept a loan, you must complete the *Master Promissory Note* which can be found at www.starkstate.edu/finaid/loans.htm.
8. First-time Stark State College loan recipients must complete online loan counseling by visiting www.starkstate.edu and clicking on the Financial Aid link, then the Student Loan Information/Application and Online Entrance Counseling link. The Financial Aid Office will receive an email notification once the counseling is complete.

The major sources of aid are explained below:

FEDERAL PELL GRANT

The Federal Pell Grant is the largest federal grant program and is made available to students who demonstrate financial need. The grant is available to both full-time and part-time students. The application for the Pell Grant is the FAFSA and the IF.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)

The FSEOG's primary selection criterion is based on Federal Pell eligibility. Funds are awarded on a first-come, first-served basis, so students should apply early to be considered for these monies.

FEDERAL WORK STUDY PROGRAM (FWSP)

The Federal Work Study Program (FWSP) provides work opportunities for students who demonstrate financial need. Funds for the FWSP are provided through the cooperative efforts of the institution and the federal government. Eligibility for participation in this program is based on student need.

OHIO INSTRUCTIONAL GRANT (OIG)

The Ohio Instructional Grant offers financial aid to students who are within the state income guidelines and are full-time students enrolled in associate degree programs at an eligible Ohio college. The amount of the award depends on family income and family size. The Ohio part-time state grant offers tuition assistance to residents enrolled less than full-time. Eligibility is determined the same as the OIG.

FEDERAL SUBSIDIZED STAFFORD LOAN

The Subsidized Stafford Loan is made through a participating bank, credit union or other lending institution. The interest rate is variable, not to exceed 8.25%. The student begins repayment six months following graduation or six months after the student is no longer enrolled in at least six credit hours. The federal government pays the interest on the loan while the student is enrolled in school. To apply, the student must complete a FAFSA, IF and Stafford Loan application. These forms can be obtained from the Financial Aid Office.

FEDERAL UNSUBSIDIZED STAFFORD LOAN

This loan is not based on financial need and, therefore, is available to anyone who meets general eligibility requirements. Loan limits, deferments and interest rates are the same as the Subsidized Stafford Loan program; however, students pay interest during in-school and deferment periods. To apply, the student must complete a FAFSA, IF and Stafford Loan application. Forms can be obtained from the Financial Aid Office.

STARK STATE COLLEGE ACADEMIC SCHOLARSHIP

Each year, all local high schools have a scholarship available to a graduating senior who demonstrates high academic performance and plans to attend Stark State College. The scholarship amount may vary, but it is intended to defray the entire cost of tuition for the freshman year. Applications are available at the high school guidance office or our Financial Aid Office. The deadline for filing is typically February 28 of the student's senior year.

TIMKEN SCHOLARSHIPS

Each year, the Financial Aid Office awards several scholarships from funds donated by the Timken Foundation. These scholarships are based on academic ability, financial need and application date.

ADDITIONAL SCHOLARSHIPS

The Financial Aid Office handles various scholarships available to students at different times throughout the year. A bulletin board outside the Financial Aid Office posts scholarships and application procedures as they become available. Information about these scholarships is also available on our Web site at www.starkstate.edu.

OTHER SOURCES OF AID

Stark State College works closely with many local agencies to assist students in securing funds for college. The agencies include Workforce Investment Act (WIA), Bureau of Vocational Rehabilitation (BVR), Trade Adjustment Act (TAA), Displaced Homemakers, etc. For more information on any of these programs, contact the individual agency.

STUDENT INSTALLMENT PAYMENT PROGRAM (SIP)

Stark State College offers a student installment program (SIP) which allows a student to pay tuition and fees in three equal installments, instead of one lump sum, for a small fee. This option will be offered automatically when the student registers for classes.

STANDARDS OF ACADEMIC PROGRESS

The Standards of *Academic Progress Policy* ensures that any student who applies for federal financial aid is making progress toward a degree. In order to maintain eligibility for aid, a student must meet the "standards requirements" listed below. Failure to meet these requirements will result in the loss of federal aid until action is taken to regain eligibility. The aid programs affected by these "standards" are: Federal Pell Grant; FSEOG; FWSP; Stafford Loan; and Federal PLUS.

State funds are not affected by this policy. However, these rules apply even if aid was not being received at the time of infraction. Outlined below is an abbreviation of the policy. The complete policy is available at the Financial Aid Office.

STANDARDS REQUIREMENTS

1. Complete 67% of the credit hours attempted for the academic year. The credit hours a student is enrolled in on the morning of the seventh day of classes for each semester are added together. It is expected that the student should complete 67% of these credit hours. For example, if a student begins each of two semesters with 12 credit hours, the student must complete 16 hours (24 x 67%) with a grade of an A, B, C or D by the end of the academic year.
2. An associate degree must be completed within 105 (semester equivalent) enrolled credit hours.
3. The student must maintain a cumulative GPA of at least 1.5 until 30 hours are completed, and a GPA of 2.00 thereafter.

Fees, Methods of Payment, Refunds and Residency Requirements

Stark State College of Technology is committed to providing an excellent college education at 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 of Technology reserves the right to revise the current schedule of tuition and fees at any time and without prior notice.

For a listing of our most current tuition and fees, please visit the Stark State College Web site at:

www.starkstate.edu/registration/fee.htm

Printed copies of the current *Schedule of Tuition and Fees* are available in the following offices:

Office of Admissions/Student Services
Business Office
Financial Aid Office

Registration
Cashier's Office
Information Desk/Switchboard

Fees

APPLICATION/MATRICULATION FEE

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

INSTRUCTIONAL FEE

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

GENERAL FEE (Includes Technology and Facilities Fees)

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

OUT-OF-STATE RESIDENTS TUITION SURCHARGE

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

LATE REGISTRATION FEE

A late registration fee will be charged to anyone registering and/or paying during late registration. Students may avoid this fee by registering and/or paying during open registration.

RE-REGISTRATION FEE

Students re-registering, due to non-payment drop, will be charged a surcharge to re-register.

LOCKER FEE

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

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.

Fees *(Continued)*

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 small, non-refundable fee for the service.

CREDIT BY EXAMINATION FEE

Students, who demonstrate appropriate knowledge, may elect to "test out" of certain courses with permission from the Office of Admissions/Student Services. An examination fee is assessed.

PARKING DECAL FEE

Students are assessed a small fee for parking privileges in designated areas.

GRADUATION FEE

This is a one-time fee that covers the processing of documents necessary for commencement.

OLDER CITIZENS FEES

Citizens who are 60 years of age or older, and have paid the current application/matriculation fee, may take 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.

Methods of Payment

PAYMENT IN FULL 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/DiscoverCard.

STUDENT INSTALLMENT PAYMENT PLAN — SIPP

Payment of tuition and fees may be made using the Student Installment Payment Plan (SIPP). A brochure explaining this plan is available in the Office of Admissions/Student Services or in the Business Office. A small, non-refundable fee is charged for this service.

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. Refunding of fees is 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 tenth through the sixteenth day of the semester - 60% refund.
- (d) On the seventeenth through the twentieth day of the semester - 40% refund.
- (e) On the twenty-first 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 eleventh day of the semester - 60 % refund.
- (c) On the twelfth through the thirteenth day of the semester - 40% refund.
- (d) On the fourteenth 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 tenth day of the semester - 40% refund.
- (d) On the eleventh 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 thirty 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, 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.

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 to the Bursar's Office for consideration above and beyond the normal refund policy. Specific instructions for this appeal are noted in the Student Handbook.

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.

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 REGULATIONS

Final grades are issued at the end of each semester. Letter grades earn a number of quality points per credit unit according to the following table:

A — Superior	4
B — Good	3
C — Average	2
D — Below Average	1
F — Failed	0
IN — Incomplete	0
NC — No Credit	0
W — Withdrawn	0
AU — Audit	0
CR — Credit	0

The student's grade-point average (GPA) is computed by the following formula:

$$\frac{\text{Total Quality Points Earned}}{\text{Total Units of Credit Attempted}} = \text{Grade-Point Average}$$

For example, five courses worth three credits each would be a total of 15 units of credit. If the student earns one "A" (4 quality points x 3 credit hours = 12 quality points) and four "Bs" (3 quality points x 12 credit hours = 36 quality points), the total is 48 quality points. To compute grade point average, (GPA), divide the total quality points (48) by the total units of credit attempted (15), and the resulting GPA is 3.20. This formula is repeated below:

Grade	Credits	Quality Points
A (4 pts.)	3	12
B (3 pts.)	12	36
	15	48

$$\frac{48 \text{ total quality points}}{15 \text{ credits attempted}} = 3.20 \text{ GPA}$$

Unless the student requests otherwise, grades are only available on the Student Access site at www.starkstate.edu/student. Students should consult periodically with the instructor to check their academic progress.

GRADE OF INCOMPLETE (IN)

The grade of "IN" may be given when the student's work in the course has been passing but some specific course requirements have not been completed. To receive an "IN" before the end of the semester, the student must contact the instructor and request this grade. If the instructor agrees to grant an "IN" for the course, a written agreement shall be reached between student and instructor outlining the remaining requirements to receive a grade. Both the student and the instructor shall sign this agreement and a copy will be forwarded to the department head. The "IN" will not be computed in the student's grade-point average for that semester. Unless the requirements in the written agreement are met within 30 calendar days from the end of the semester in which the "IN" was issued, the grade will automatically revert to an "F". By special permission of the instructor and notification of the department head, this time limit may be extended for extenuating circumstances.

ATTENDANCE POLICY STATEMENT

Regular and punctual attendance at all classes is expected of each student. The individual instructor has both the responsibility and the prerogative for managing student attendance.

Students anticipating absence(s) from class are responsible for contacting the instructor(s).

The federal government now requires that colleges and universities monitor attendance. This is necessary in order to document that students are eligible for the federal funds they receive. The federal government

mandates that non-attendees be dropped or withdrawn and federal monies be refunded accordingly. Therefore, Stark State monitors class attendance for *all* students since it is not obvious which students receive federal funds. Students not in attendance of their classes risk being dropped or withdrawn from courses and having any financial aid cancelled or reduced.

WITHDRAWAL POLICY

Students may withdraw from a course or from the College during the first 14 calendar days of any academic period by completing the “change of course” form and processing it through the Registration Office. The form is available in the Registration Office, the Office of Admissions/Student Services and all academic division offices. Changes made during this period will not become part of the student’s transcript.

Through the same procedure (but, including the instructor’s signature) students may withdraw from a course or the College, with a “W” grade, from the 15th calendar day of classes through 75% of the course.

Requests to withdraw with a “W” grade beyond the deadline date through the end of the last class meeting of the course must be presented to the instructor and the department head. Only cases involving emergency or extenuating circumstances necessitating the request will be considered.

AUDITING COURSES

Students wishing to audit a course must indicate audit status on the registration form at the time of registration. Students who register for a class for credit may change to audit status during the first week of classes only. Students auditing classes must pay the credit hour tuition for that course.

REPEATING A COURSE

If a student repeats a course, the first grade received remains on the student’s record. However, the second grade received is the grade of record used to determine the semester and cumulative grade point average.

DEAN’S LIST

At the end of each term, a *Dean’s List* is compiled, which lists the names of all full-time students (12 or more credits) who have achieved a grade point average of 3.50 or better for the term. No student is eligible for the list who has a grade of “IN” or “F.”

Part-time students who have earned 10 or more hours of credit in any academic year (fall and spring semesters) with a GPA of 3.50 or above will be recognized on the *Dean’s List* at the end of spring semester each year. Students eligible for this recognition would be limited to students who in any academic year have not been full-time.

CROSS-REGISTRATION

Stark State College has made arrangements with Kent State University-Stark for cross-registration. To cross-register, students should contact the Registration Office or the Office of Admissions/Student Services to obtain details of the program of interest.

ACADEMIC PROBATION/DISMISSAL

Probation is a message to alert students that the quality of their work must improve if they are to obtain the minimum grades required for graduation.

Students who fail to maintain a cumulative grade-point average of 2.00 will be placed on academic probation. Students on academic probation are required to meet with their academic advisor before the beginning of the next term.

Students will be subject to academic dismissal if they have been on academic probation for one term and do not achieve the required cumulative grade point average for the hours attempted during the next term in which they are enrolled.

Removal of probation status for students is automatic when students raise their accumulated grade-point average to 2.00 or above.

After the following specified number of credit hours is attempted, students will be dismissed from the College if their cumulative grade-point average falls below the following minimums:

Credit Hours	Cumulative Point Average
12	1.00*
24	1.25
30	1.50
45	1.75
60+	2.00

However, students completing an academic term with a 2.00 grade-point average will not be dismissed from the College.

Students may apply for reinstatement after one term through the department head and appropriate dean.

Appeals to dismissal may be made to Appeals Committee.

**No student will be dismissed until completion of two terms.*

HONESTY IN LEARNING

Stark State College of Technology 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.

Coursework - Work done for class, which a student submits as the student's own work, shall not contain that which has been obtained from another other than properly credited references, sources, and citations. The work which a student submits shall be prepared in accordance with course guidelines.

Exams - Work done on a test, exam, or quiz shall be the student's own and shall not contain that which has been obtained from an inappropriate source. A student shall not obtain nor seek to obtain advanced access to questions or advance copies of a test, exam or quiz.

A student who violates or assists another to violate the *Honesty in Learning* policy may be penalized with a failing grade for the specific work for which the dishonesty was committed. Additional violations may lead to more severe penalties, including failure of the course and/or dismissal from the College.

DISCIPLINARY PENALTIES FOR ACADEMIC DISHONESTY

- For a first offense, a grade of "F" (specific value to be defined by instructor) may be issued for the assignment in which dishonesty occurred.
- For a second offense (not necessarily in the same course or term) a grade of "F" may be issued for the course in which dishonesty has occurred.
- Any student who has been involved in three offenses (not necessarily in the same course or term) may be dismissed from the College immediately and suspended for the next full term. Upon readmission to the College, any future offense will cause the student to be dismissed immediately with no right to readmission.
- A student may appeal a course grade or suspension by following the Grade Appeal Procedure described in the *Policies and Procedures Manual*.

GRADUATION REQUIREMENTS/DEGREES

Stark State College of Technology confers the following degrees upon successful completion of a prescribed course of study:

- the associate of applied business (A.A.B.)
- the associate of applied science (A.A.S.)
- the associate of science (A.S.)
- the associate of technical studies (A.T.S.)

Minimal graduation requirements for degrees are:

- a grade point average of 2.00 or above.
- a grade point average of 2.00 or above in the technical major.
- successful completion of courses listed on the official program guide.

Deviation from the specific program requirements requires approval from the department head or appropriate dean.

- Completion of the application for graduation form is required, along with payment of the graduation fee, no later than the published deadlines for the appropriate graduation (May or December) as indicated in guidelines published by the vice president for instructional and corporate services. Information regarding graduation is also available at www.starkstate.edu.

CATALOG-IN-FORCE

Requirements to earn a degree or certificate are based initially on the catalog which is in force at the time of the student's initial enrollment. However, the College reserves the right to change course offerings and academic requirements without notice. These changes should not be to the disadvantage of the student during his or her enrollment. In that regard, the following guidelines determine which catalog a student must follow in meeting program requirements:

- Students may elect to complete their coursework under the most recent catalog and must comply with all of the new requirements for their program.
- Students who change majors must meet the requirements of the catalog which is in force at the time they change majors.
- Students who transfer to another college or university and return to Stark State College will be readmitted under the catalog which is in force at the time of readmission.
- Students who do not earn any credit hours in two calendar years must satisfy requirements of the catalog in force at the time of re-enrollment.
- Dismissed students are readmitted under the catalog which is in-force at the time of readmission.

Exceptions to the above may be necessary when changes in certification or licensure standards mandate changes in academic requirements or in College programs.

Questions concerning this policy should be directed to the Office of Admissions/Students Services.

ACADEMIC HONORS

Various awards are offered for outstanding accomplishments in each curriculum to members of the graduating class.

Graduates in each curriculum will graduate “with high distinction,” provided they have a GPA of 3.80 or better. Graduates in each curriculum will graduate “with distinction,” provided their cumulative GPAs are 3.40 or above.

TRANSCRIPTS

An official copy of a student’s record is issued upon written request to the Registration Office by the student or alumnus. Transcripts will not be issued to those students who have unpaid financial obligations with the College. Outstanding matters of this nature are handled by the Business Office.

TRANSFERABILITY OF CREDITS

Acceptance of credits earned at Stark State College is at the option of the receiving institution. Many institutions have specially designed transfer programs.

TRANSFER BACCALAUREATE PROGRAMS

Most colleges and universities in Ohio (and elsewhere in the nation) recognize the purpose and function of the two-year technical curricula, and therefore have developed, or are in the process of developing, special transfer (junior and senior year) programs for technical program graduates who wish to pursue baccalaureate degrees. Information on these programs is available in the Office of Admissions/Student Services. Students who plan to complete work on a baccalaureate degree after receiving their associate degree are urged to investigate transfer programs, and to discuss their plans with our counselors.

The transfer approach to baccalaureate degrees offers several advantages to the technical college graduate:

1. Educational. The transfer curriculum provides the student with a chance to major in the occupationally-related courses in the first two years and in liberal arts and more advanced occupational courses in the following years. Conversely, the typical B.A. or B.S. program is comprised chiefly of liberal art subjects during the first two years and occupationally related subjects during the last two years.

The transfer curriculum has sometimes been called the “upside down” curriculum, but for many it is really “right-side-up,” since it is educationally sound to move from the “particular and the concrete” to the “general and the abstract.”

2. Financial. The transfer plan is economically feasible for most students because they can work in their chosen field while completing the baccalaureate program.

3. Occupational. Stark State College graduates have three options: begin full-time employment (they are job-ready); pursue their bachelor’s degree full-time (they are prepared for additional higher education); or commence full-time employment and pursue additional education on a part-time basis (the employer often reimburses tuition charges).

It should be noted that Stark State students can find out early in their education if their career choice meets their expectations.

4. Recognition. The attainment of a meaningful associate degree is an encouraging step at halfway point to the baccalaureate degree via the transfer approach, and represents an additional valid credential to prospective employers.

State of Ohio Policy for Institutional Transfer

The Ohio Board of Regents, following the directive of the Ohio General Assembly, has developed a statewide policy to facilitate movement of students and transfer credits from one Ohio public college or university to another. The purpose of the state policy is to avoid duplication of course requirements and to enhance student mobility throughout Ohio's higher education system. Since independent colleges and universities in Ohio may or may not be participating in the transfer policy, students interested in transferring to an independent institution are encouraged to check with the college or university of their choice regarding transfer agreements.

TRANSFER MODULE

The Ohio Board of Regents' *Transfer and Articulation Policy* established the *transfer module*, which is a specific subset or the entire set of a college or university's general education requirements. The *transfer module* consists of 37-39 semester hours of specified course credits in English, mathematics, arts and humanities, social science and natural science.

A *transfer module* completed at one college or university automatically meets the requirements of the *transfer module* at the receiving institution, once the student is accepted. Students may be required to meet additional general education requirements that are not included in the *transfer module*.

CONDITIONS FOR TRANSFER ADMISSION

Students meeting the requirements of the *transfer module* are subject to the following conditions:

1. The policy encourages receiving institutions to give **preferential consideration** for admission to students who complete the *transfer module* and either the associate of arts or the associate of science degrees. These students will be able to transfer all courses in which they received a passing grade of "D" or better. Students must have an overall grade point average of 2.0 to be given credit for the *transfer module*.
2. The policy also encourages receiving institutions to give **preferential consideration** for admission to students who complete the *transfer module* with a grade of "C" or better in each course and 90 quarter hours or 60 semester hours. Students must have an overall grade point average of 2.0 to be given credit for the *transfer module* and only courses in which a "C" or better has been earned will transfer.
3. The policy encourages receiving institutions to admit on a **non-preferential consideration** basis students who complete the *transfer module* with a grade of "C" or better in each course and less than 90 quarter hours or 60 semester hours. These students will be able to transfer all courses in which they received a grade of "C" or better.

Admission to a given institution, however, does not guarantee that a transfer student will be automatically admitted to all majors, minors or fields of concentration at that institution. Once admitted, transfer students shall be subject to the same regulations governing applicability of catalog requirements as all other students. Furthermore, transfer students shall be accorded the same class standing and other privileges as native students on the basis of the number of credits earned. All residency requirements must be successfully completed at the receiving institution prior to the granting of a degree.

RESPONSIBILITIES OF STUDENTS

In order to facilitate transfer with maximum applicability of transfer credit, prospective transfer students should plan a course of study that will meet the requirements of a degree program at the receiving institution. Specifically, students should identify early in their collegiate studies an institution and major to which they desire to transfer. Furthermore, students should determine if there are language requirements or any special course requirements that can be met during the freshman or sophomore year. This will enable students to plan and pursue a course of study that will articulate with the receiving institution's major. Students are encouraged to seek further information regarding transfer from both their advisor and the college or university to which they plan to transfer.

APPEAL PROCESS

Transcripts for coursework completed at other regionally accredited colleges and universities are reviewed by the Office of Admission/Student Services to determine appropriate transfer.

If a student is not satisfied with regard to transfer credit application, the student should pursue the following appeals process to resolve the situation:

1. Meet with transcript evaluator or an admissions counselor to discuss the credit in question.
2. If there is no resolution in step one, meet with the Dean of Admissions/Student Services to further discuss the matter.
3. If there is no resolution in step two, the student will be directed by the Dean of Admissions/Student Services to meet with the Vice President for Instruction and Corporate Services to further discuss the matter.

If a student's request is denied by the Vice President for Instructional and Corporate Services and further appeal is requested, the Vice President for Instruction and Corporate Services will direct the student to file an appeal to: Articulation and Transfer Appeals Review Committee, Ohio Board of Regents, 30 East Broad Street, 36th floor, Columbus, Ohio 43215-4314.

Students appealing the transfer of their credits will need to provide the College with appropriate materials to aid in determining applicable transfer credit.

The Appeals Review Committee shall review and recommend to institutions the resolution of individual cases of appeal from transfer students who have exhausted all local appeal mechanisms concerning applicability to transfer credits at receiving institutions.

HOW TO APPLY

New students should indicate their interest in completing the *transfer module* on application to the College. Current or returning students should discuss this option with their academic advisor or an admissions counselor. The *transfer module* is intended to be completed in cooperation with your area of study.

THE STARK STATE COLLEGE OF TECHNOLOGY TRANSFER MODULE

Field	General education requirements applied to <i>transfer module</i>	Additional general education requirements	Additional general education requirements beyond the <i>transfer module</i> for graduation
ENGLISH <i>minimum</i> 6 semester hours	ENG124 (3) <i>Plus one of the following:</i> ENG123 (3), ENG221 (3), ENG224 (3) (6 semester hours)		Select one course: ENG122 (3), SPH121 (3), SPH122 (3) (3 semester hours)
MATHEMATICS <i>minimum</i> 6 semester hours	Select two courses: MTH122 (3), MTH221 (3), MTH 223 (4), MTH222 (3) (6-7 semester hours)		
ARTS and HUMANITIES <i>minimum</i> 6 semester hours	PHL122 (3) <i>Plus one of the following Kent State-Stark courses:</i> ARCH11013 ART12001 or 22006 ENG22055, 23079 or 24071 HIST11050, 11051, 12070 or 12071 MUS22111 PAS23101 or 23102 (6 semester hours)		
SOCIAL SCIENCE <i>minimum</i> 6 semester hours	Select two courses: PSY121 (3) and SOC121 (3) or SOC122 (3), SOC123 (3), SOC225 (3) (6 semester hours)	Select one PSY/PSC course and/or one BUS course: PSY122 (3), PSY123 (3), PSY124 (3) PSY221 (3), PSC121 (3), BUS122 (3), BUS221 (3), BUS222 (3) (3 semester hours)	
NATURAL and PHYSICAL SCIENCE* <i>minimum</i> 7-8 semester hours	Select two courses: BIO101 (3), BIO121 (4), BIO122 (4) BIO126 (4), BIO127 (4), BIO221 (4), CHM101 (4), CHM121 (4), CHM122 (4), PHY101 (4), PHY121 (4), PHY122 (4) PHY221 (4), PHY222 (4) <i>*Must include at least one laboratory course.</i> (7-8 semester hours)		
		Select two additional courses from column 2 and/or 3 for	
TOTAL	31-33 SEMESTER HOURS	6 SEMESTER HOURS	3 SEMESTER HOURS

English

Business Communication	ENG	123
College Composition	ENG	124
Technical Report Writing	ENG	221
Composition and Literature	ENG	224

Mathematics

College Algebra and Trigonometry II	MTH	122
College Algebra	MTH	123
Concepts of Calculus	MTH	221
Statistics	MTH	222
Analytic Geometry – Calculus I	MTH	223

Arts & Humanities

Ethics	PHL	122
Understanding Architecture+	ARCH	11013
Art Survey+	ART	12001
Art History I: Ancient and Medieval Art+	ART	22006
Intro. to Shakespeare+	ENG	22055
Major Modern Writers:		
British and United States+	ENG	23079
Great Books I+	ENG	24071
History of Civilization I+	HIST	11050
History of Civilization II+	HIST	11051
History of the U.S., The Formative Period+	HIST	12070
History of the U.S., The Modern Period+	HIST	12071

The Understanding of Music+	MUS	22111
Interpreting the Black Experience I+	PAS	23101
Interpreting the Black Experience II+	PAS	23102

Social Science

General Psychology	PSY	121
Sociology	SOC	121
Sociology and Technology	SOC	122
Dynamics of the Family	SOC	123
Cultural Diversity	SOC	225

Natural and Physical Science

Intro. to Anatomy and Physiology	BIO	101
Anatomy and Physiology I	BIO	121
Anatomy and Physiology II	BIO	122
Science, Energy and the Environment	BIO	126
Human Biology	BIO	127
Principles of Microbiology	BIO	221
Introduction to Chemistry	CHM	101
General Chemistry	CHM	121
Organic and Biological Chemistry	CHM	122
Principles of Physics	PHY	101
Physics I	PHY	121
Physics II	PHY	122
Physics I with Calculus	PHY	221
Physics II with Calculus	PHY	222

Division of Corporate and Community Services

Stark State College of Technology's Division of Corporate and Community Services provides continuing education, contract training, certification and labor-management assistance to the community through:

- continuing education classes, workshops/seminars
- contract training/education and assessment services
- computer certification tests, and
- Stark County Labor-Management Council

CONTINUING EDUCATION CLASSES, WORKSHOPS AND SEMINARS

The Division of Corporate and Community Services offers a full range of continuing education classes, workshops and seminars that can help currently employed individuals; prepare them for a new career; and enrich their lives. Most programs are held at the Advanced Technology Center.

Continuing education classes are designed to meet the mandatory continuing education licensure requirements of professionals in a variety of fields, such as social work, counseling, health care, and law enforcement. In addition, programs for children are offered during the summer.

Each semester, the College publishes a schedule of continuing education classes. For more information, or to request a schedule, please call 330-966-5455 or visit www.starkstate.edu.

CONTRACT TRAINING/EDUCATION AND ASSESSMENT SERVICES

In addition to continuing education, the Division of Corporate and Community Services offers contract training/education programs to business, industry, health care facilities and non-profit organizations. Contract training services are convenient, cost-effective and customized to meet the unique needs of individual companies, and are held on campus or at the company location. Our highly qualified consultants and faculty will help assess your training needs and design technical and human resource programs to satisfy those needs. A variety of assessments are available so incoming students can find the right program to match their current level of capability.

The Division of Corporate and Community Services also operates an ISO/QS9000 consortium program that assists companies to become ISO/QS9000 compliant and/or certified. For more information about contract training services, please call 330-966-5465.

CERTIFICATES OF COMPLETION

The Division of Corporate and Community Services awards certificates to students for satisfactory completion of continuing education classes. The College follows national guidelines for continuing education and is a member of the Ohio Continuing Higher Education Association (OCHEA), and EnterpriseOhio. In order to achieve satisfactory completion, students must attend at least 80% of the continuing education classes. In addition, specially-approved, certified contact hours are awarded for courses and disciplines that have specific criteria for continuing education credit.

Specific testing services are available to allow individuals to achieve certification in a number of MOS, MCSE and CompTIA disciplines as well as others. Contact the Continuing Education Office at 330-966-5455 for more information or to schedule a certification test.

CONTINUING EDUCATION UNITS (CEUs)

Continuing education units (CEUs) are issued for most continuing education and contract training courses. The CEU is a national uniform unit of measurement for continuing education programs. One continuing education unit is awarded for 10 contact hours of participation in a continuing education class or organized experience under qualified instruction. The College's Registration Office maintains a record for each student who completes a course or program that awards CEUs. The continuing education student must submit a written request to the Registration Office to obtain a copy of the official transcript.

STARK COUNTY LABOR-MANAGEMENT COUNCIL

The Stark County Labor-Management Council is housed in the College's Advanced Technology Center. The goal of the Council is to create harmony between labor and management and to enhance economic development in Stark County. The SCLMC Board of Directors is comprised of top union, management, public sector and governmental executives. The Council provides seminars and workshops to enhance labor management relationships. It also provides customer-focused, neutral, cost-effective training facilitation and consulting services. For more information about the Council, call 330-966-5455, Ext. 4505.

OHIO PEACE OFFICER LAW ENFORCEMENT TRAINING ACADEMY

Stark State College of Technology, in cooperation with the Ohio Peace Officer Training Commission and the Ohio Attorney General's Office, offers the Ohio Peace Officer Certification Training.

This course assists individuals interested in becoming municipal, township, or village police officers; deputy sheriffs; and state wildlife officers, as well as other law enforcement positions. The Stark State College program also fulfills the requirements for sworn officers to be certified.

Our Academy is of the highest caliber with professional staff members averaging over 20 years of law enforcement experience. Additional instructional staff are attorneys from the Prosecutor's Office, criminologists from the Canton-Stark County Crime Lab, and a variety of select personnel from surrounding law enforcement agencies.

Call the Office of Continuing Education at 330-966-5455 for program requirements.

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 \$1000
- 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:

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

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

- Stark State College of Technology Office of Admissions/Student Services
- Stark State College of Technology Security Department
- Interfaith Campus Ministry
- Stark State College of Technology STConnection
- Alcohol and Drug Assistance 330 453-8811
- NOVA:
 - Alliance – 330-821-1995
 - Canton – 330-455-9407
 - Massillon – 330-833-4132
- Crisis Intervention Center
330-452-6000 or 1-800-956-6630

SSCT 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 Technologies

Today's business world demands highly-skilled employees oriented to the preparation, interpretation and use of oral, written and number-based data. The business technologies division provides the opportunity to acquire those skills via 31 degree programs and option offerings in nine career fields which include:

- accounting
- administrative information
- automotive
- business management
- financial services
- information reporting
- legal assisting
- marketing management
- operations management

Business Technologies Mission Statement

To provide a current, relevant and quality-driven technical education to those seeking to pursue or expand careers in business-related fields. Through experienced, degreed faculty, the division delivers demand-driven curriculum with a professional, customer-service focused organization.

The Business @ a Distance Consortium is an exciting collaboration by several Ohio two-year colleges to deliver Web-based business course options to Stark State's associate of applied business degree in business management technology. For more information regarding this innovative program, refer to the business management technology – business @ a distance online option page in this section.



Accounting Technology

Certified Public Accountant (CPA) Option

Accounting is a challenging and dynamic profession. A certified public accountant (CPA) is a leader in that profession with the ability to provide a wide variety of client services including auditing, tax preparation and planning, financial statement preparation and consulting. In addition, CPAs work for companies, governmental entities and not-for-profit entities preparing and analyzing financial information for use by internal and external decision makers.

Under the Ohio Revised Code, in order to sit for the Uniform CPA Examination, a candidate must have obtained at least an associate degree with a concentration in accounting that includes related courses in other areas of business administration. The accounting technology – certified public accountant option curriculum meets the associate degree requirements as set forth in the code. Upon completing the curriculum, a candidate must take and earn a minimum score on the Graduate Record Exam prior to being allowed to sit for the CPA Exam. After four years of approved work experience, a successful candidate may be certified.

The goal is that students successfully completing the accounting technology – certified public accountant option will be exposed to all the tools and skills necessary to be successful in an accounting career. They will have covered all the technical knowledge required and practiced its application. In addition, they will have been exposed to all of the technical subject material covered on the Uniform CPA exam. Students will demonstrate their acquired knowledge and abilities throughout the program within individual classes and in the capstone course.

The current business environment requires all prospective employees to have good communication skills, both written and oral, and to be able to interact with co-workers and clients in a professional manner. Employers also expect workers to have strong computational skills, to be computer literate and to be able to think critically. All students completing a program at Stark State College will be introduced, provided practice in, and be expected to master these basic competencies.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
BUS123	Business Mathematics	4
BUS121	Business Administration	4
ACC132	Financial Accounting*	4
ACC127	Business Statistics and Quantitative Research	3
		18
Semester II		
ENG123	Business Communication	3
CAP120	Business Computer Applications***	4
ACC221	Intermediate Accounting I	4
ACC133	Managerial Accounting	4
BUS122	Basic Economics	3
		18
Semester III		
SPH121	Effective Speaking	3
ACC124	Taxation	4
ACC222	Intermediate Accounting II	4
ACC223	Cost Accounting	4
	Accounting Elective****	3/4
		18/19
Semester IV		
ACC225	Auditing	4
FIN122	Principles of Finance	4
ACC130	Business Law and Ethics	3
	Social Sciences Elective**	3
	Accounting Elective****	3/4
		17/18

71/73 TOTAL CREDIT HOURS

- † Based on SSCT placement score.
- * Student may select both ACC121 and ACC122 in place of this course.
- ** Student may select from PSY121, PSY124, SOC121, SOC122 or SOC225.
- *** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.
- **** Student should select from ACC226, ACC228, ACC232 or BTD223.

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.

In order 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.

Accounting Technology

Corporate Option

The accounting technology – corporate option curriculum gives students the solid foundation in accounting theory that is necessary for entry-to upper-level accounting positions and career advancement. Job opportunities include corporate accounting in the areas of financial information preparation, reporting, and analysis or cost accounting; governmental accounting; not-for-profit accounting; and accounting for partnerships or sole proprietorships.

The goal is that students successfully completing the accounting technology – corporate option will be exposed to all the tools and skills necessary to be successful in an accounting career. They will have covered all the technical knowledge

required and practiced its application. In addition, they will have been exposed to all of the technical subject material covered on the Uniform CPA Exam. Students will demonstrate their acquired knowledge and abilities throughout the program within individual classes and in the capstone course.

The current business environment requires all prospective employees to have good communication skills, both written and oral, and to be able to interact with co-workers and clients in a professional manner. Employers also expect workers to have strong computational skills, to be computer literate and to be able to think critically. All students completing a program at Stark State College will be introduced, provided practice in, and be expected to master these basic competencies.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
BUS123	Business Mathematics	4
BUS121	Business Administration	4
ACC132	Financial Accounting*	4
ACC127	Business Statistics and Quantitative Research	3
		<hr/> 18
Semester II		
ENG123	Business Communication	3
CAP120	Business Computer Applications***	4
ACC221	Intermediate Accounting I	4
ACC133	Managerial Accounting	4
BUS122	Basic Economics	3
		<hr/> 18
Semester III		
SPH121	Effective Speaking	3
ACC124	Taxation	4
ACC222	Intermediate Accounting II	4
ACC223	Cost Accounting	4
	Accounting Elective****	3/4
		<hr/> 18/19
Semester IV		
ACC225	Auditing	4
FIN122	Principles of Finance	4
ACC130	Business Law and Ethics	3
	Social Sciences Elective**	3
	Accounting Elective****	3/4
		<hr/> 17/18

71/73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Student may select both ACC121 and ACC122 in place of this course.

** Student may select from PSY121, PSY124, SOC121, SOC122 or SOC225.

*** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

**** Student should select from ACC226, ACC227, ACC229 or ACC234 or BTD223.

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.

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Accounting Technology

Tax Option

Every time the Congress tries to simplify the Internal Revenue Code, it becomes more complicated and more tax forms are required.

These “simplifications” have created a need by businesses and certified public accounting firms for employees who have the knowledge of accounting and business transactions and are able to convert that into tax return preparation and tax savings by understanding the tax laws.

It is acceptable to arrange your business affairs to pay the least amount of taxes as legally possible. This is accomplished with an understanding of accounting transactions and taxation law.

The goal is that the graduate will be able to apply their accounting and tax knowledge to a company's tax department or become employed by a certified public accountant in their tax department. The entrepreneur should be able to start an accounting and tax practice to work with many of the small businesses that need assistance in this area.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
BUS123	Business Mathematics	4
BUS121	Business Administration	4
ACC132	Financial Accounting*	4
ACC127	Business Statistics and Quantitative Research	3
		18
Semester II		
ENG123	Business Communication	3
CAP120	Business Computer Applications***	4
ACC221	Intermediate Accounting I	4
ACC133	Managerial Accounting	4
ACC124	Taxation	4
		19
Semester III		
SPH121	Effective Speaking	3
BUS122	Basic Economics	3
ACC222	Intermediate Accounting II	4
ACC223	Cost Accounting	4
	Accounting Elective****	3/4
		17/18
Semester IV		
ACC225	Auditing	4
FIN122	Principles of Finance	4
ACC130	Business Law and Ethics	3
	Social Sciences Elective**	3
	Accounting Elective****	3/4
		17/18

71/73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Student may select both ACC121 and ACC122 in place of this course.

** Student may select from PSY124, SOC121, SOC122 or SOC225.

*** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

**** Student should select from ACC228, ACC232, ACC233, BTD223 or FIN223.

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.

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Accounting Technology

Computer Information Option

The accounting technology – computer information option curriculum should provide the student with a foundation in accounting theory, and related courses in other areas of business, along with a highly developed computer competency. The student will learn a number of the most widely used software applications such as Microsoft Word, PowerPoint, Excel, Access and QuickBooks and how to use them to implement accounting functions.

These courses should provide the student with the necessary computer skills to effectively communicate and present data and materials to co-workers and clients. The students' exposure to computer application software and database development using Access, in conjunction with the traditional accounting courses, should provide the accounting student with a rounded solid computer-based accounting degree.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
BUS123	Business Mathematics	4
BUS121	Business Administration	4
ACC132	Financial Accounting*	4
ACC127	Business Statistics and Quantitative Research	3
		18
Semester II		
ENG123	Business Communication	3
ECA122	Computer Applications for Technical Professionals**	3
ACC221	Intermediate Accounting I	4
ACC133	Managerial Accounting	4
BUS122	Basic Economics	3
		17
Semester III		
SPH121	Effective Speaking	3
ACC124	Taxation	4
ACC229	Accounting Practice and Problems	3
CAP134	Spreadsheet Analysis	3
	Accounting Elective I****	3/4
		16/17
Semester IV		
ACC225	Auditing	4
CAP223	Microsoft Access Database	3
ACC130	Business Law and Ethics	3
	Social Sciences Elective***	3
	Accounting Elective II*****	3
		16

67/68 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Student may select both ACC121 and ACC122 in place of this course.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for ECA122.

*** Student may select PSY121, PSY124, SOC121, SOC122 or SOC225 in place of this course.

**** Student should select from ACC227, ACC228, ACC234 or BT223.

***** Student may select CAP139, CAP224 or ECA228.

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.

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Accounting Technology

One-Year Bookkeeping Certificate

Stark State College offers a one-year certificate program in bookkeeping for non-degree-seeking students. Students may apply credits earned in this certificate program to the accounting associate degree program. Students will be awarded a certificate in bookkeeping upon completion of the courses listed. Students must still pass the Certified Bookkeepers Examination to become certified. This examination is administered by the American Institute of Professional Bookkeepers.

Many students opt to pursue an associate degree in accounting after receiving a bookkeeping certificate.

The goal is that the students successfully completing the one-year bookkeeping certificate will be exposed to all the tools and skills necessary to be successful in the undertaking of entry level positions in the field of accounting. Areas of entry may include, but are not limited to bookkeeper, accounts receivable specialist and accounts payable specialist.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ACC121	Principles of Accounting I**	4
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition †	3
		<hr/> 19
Semester II		
ACC122	Principles of Accounting II**	4
ACC229	Accounting Practice and Problems	3
ACC227	Current Accounting Topics	3
ENG123	Business Communication	3
ACC130	Business Law and Ethics	3
		<hr/> 16

35 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

** Successful completion of ACC132 may be substituted for ACC121 and ACC122.

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.

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Accounting Technology

Enrolled Agent One-Year Certificate Program

Preparing tax returns is becoming more and more complicated. The potential penalties and interest for return preparation mistakes can be expensive. This has created a need for qualified tax preparers. This is evidenced by the growth of tax preparation companies, such as H&R Block and Jackson Hewitt.

Only three professions, attorney, certified public accountant and enrolled agent, can represent a taxpayer before the Internal Revenue Service.

For the person who wants to prepare tax returns without taking all the additional course study required to become an attorney or a certified public accountant, this certificate and passing the *Enrolled Agent Exam* administered by the IRS, satisfies that need. It is a tax-oriented curriculum with the emphasis on taxation.

The curriculum covers individual tax, corporate and business taxes, non-profit taxation and estate and income tax planning. The capstone course of Advanced Taxation Topics will be a summary of all prior courses. The next step is to sit for the Enrolled Agent Examination, administered by the Internal Revenue Service.

The goal is that graduates will sit for and pass the Enrolled Agent Examination. Upon passing the examination, the graduate will be able to be employed by a tax return preparation company or a certified public accounting firm. The entrepreneur should be able to start a tax return preparation business.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ACC132	Financial Accounting**	4
ACC124	Taxation	4
CAP120	Business Computer Applications*	4
ACC130	Business Law and Ethics	3
ENG124	College Composition †	3
		18
Semester II		
ACC228	Advanced Taxation	4
FIN223	Estate and Income Tax Planning	3
FIN222	Retirement Planning and Employee Benefits	3
ENG123	Business Communication	3
ACC233	Advanced Taxation Topics	4
		17

35 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

** Student may select both ACC121 and ACC122 in place of this course.

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

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.

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Accounting Technology

Fundamental Payroll One-Year Certificate

A small business operating as a sole-proprietor wants to add their first employee. What has to be done to add this employee? A federal identification number has to be applied for, the business must register as a withholding agent with the State of Ohio and possibly the city where the business is located. An application has to be submitted to the Ohio Job and Family Services and the Ohio Bureau of Workers Compensation. That is just to get started.

The accounting records have to be modified to accommodate all the new accounts that payroll, payroll tax withholding and payroll tax expense require. Quarterly, semi-annual and annual payroll tax forms are required. Who is going to do all this for the small business?

Large companies employ payroll people in their payroll department as well. Compliance with federal and state payroll and employee laws has created the need for the payroll professional.

The goal for the graduate of the fundamental payroll certificate program is to successfully pass the Fundamental Payroll Examination administrated by the American Payroll Association. The graduate would be able to assist the previously described small business and all others like them.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ACC132	Financial Accounting**	4
ACC227	Current Accounting Topics	3
CAP120	Business Computer Applications*	4
BUS123	Business Math	4
ENG124	College Composition †	3
		18
Semester II		
ACC234	Advanced Payroll	3
ACC229	Accounting Practice and Problems	3
ACC130	Business Law and Ethics	3
ENG123	Business Communication	3
ACC124	Taxation	4
		16

34 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

** Student may select both ACC121 and ACC122 in place of this course.

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

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.

In order 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.

Administrative Information Technology

Due to the automation of administrative functions, there are tremendous opportunities and career choices for administrative professionals with skills in information management software and office technology.

Administrative professionals are required to have strong technical and interpersonal skills and function as an integral part of work groups and management teams in work environments. Skills acquired in the administrative information technology degree program creates paths to other careers in computers, desktop publishing, administration, human resources and management.

The administrative information technologies department utilizes alternative delivery methods. Many courses are Web-enhanced or Web-delivered. Day, evening, Saturday and once-a-week sessions are offered.

The goal is that graduates will be able to organize work areas, use resources, make decisions and exhibit proficiency in the use of office procedures and information systems used in automated office environments; apply practical knowledge and utilize technical skills such as keyboarding, transcription, proofreading, document production, microcomputer applications, records management, and the use of the Internet; demonstrate employability skills and professionalism through sound work habits, ethics and responsibility, and work in individual, team and group settings; communicate ideas and information verbally and in written form; have computational skills for solving business problems and for making analytic judgments; acquire, organize and evaluate information for making decisions and solving problems in business environments.

SUGGESTED COURSE SEQUENCE

			Credit Hours
Semester I			
ENG124	College Composition †		3
OAD130	Communication and Transcription Skills		3
OAD121	Keyboarding/Formatting		3
BUS123	Business Mathematics		4
CAP120	Business Computer Applications**		4
BUS121	Business Administration		4
			<hr/> 21
Semester II			
<i>OAD127</i>	<i>Word Processing – Microsoft Word</i>		3
ACC121	Principles of Accounting I		4
ENG123	Business Communication		3
OAD129	Keyboarding Skillbuilding (8 wks)		1
OAD131	Graphic Design Concepts		3
OAD132	Records Management		3
			<hr/> 17
Semester III			
<i>OAD226</i>	<i>Spreadsheets - Microsoft Excel</i>		3
ACC130	Business Law and Ethics		3
	Social Sciences Elective*		3
<i>OAD104</i>	<i>Computer Applications - PowerPoint (8 wks)</i>		1
SPH121	Effective Speaking		3
OAD128	Desktop Publishing – Microsoft Publisher		3
			<hr/> 16
Semester IV			
BUS122	Basic Economics		3
OAD227	Administrative Procedures and Systems		3
OAD232	Administrative Information Technology Practicum		3
<i>OAD236</i>	<i>Database Applications – Microsoft Access</i>		3
OAD225	Administrative Machine Transcription		3
OAD238	Microsoft Front Page		3
			<hr/> 18

Students who are enrolled at the College for at least one semester and who have passed the Certified Professional Secretary (CPS) examination are eligible to receive credit toward an associate of applied business degree in administrative information technology, subject to the review and approval of the appropriate department heads.



Bold italicized courses indicate courses that contain content for Microsoft Office Specialist (MOS) certification.

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from SOC121 or PSY121.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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.

In order 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.

Administrative Information Technology

One-Year Certificate Program

Stark State College offers a one-year certificate program in administrative information technology for non-degree-seeking students. Students selecting the certificate program may apply credits earned in this one-year program to the associate degree program, if they decide to pursue it. They will be awarded a certificate in administrative information technology upon completion of the courses listed.

Some of these courses may require prerequisite knowledge or skill. Refer to the course descriptions in the back of this catalog and/or check with the department head of administrative information technologies.

SUGGESTED COURSE SEQUENCE

Semester I		Credit Hours
OAD121	Keyboarding/Formatting	3
<i>OAD127</i>	<i>Word Processing – Microsoft Word</i>	<i>3</i>
ENG124	College Composition †	3
	Social Sciences Elective*	3
BUS123	Business Mathematics	4
CAP120	Business Computer Applications**	4
		<hr/> 20
Semester II		
<i>OAD236</i>	<i>Database Applications – Microsoft Access</i>	<i>3</i>
ENG123	Business Communication	3
<i>OAD226</i>	<i>Spreadsheet - Microsoft Excel</i>	<i>3</i>
OAD131	Graphic Design Concepts	3
OAD132	Records Management	3
		<hr/> 15

35 TOTAL CREDIT HOURS

Students must complete an application upon completion of the courses in the certificate program. Applications may be obtained from the department head of administrative information technologies.

† Based on SSCT placement score.

* May select from SOC121 or PSY121.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



Bold italicized courses indicate courses that contain content for Microsoft Office Specialist (MOS) certification.

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.

In order 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.

Automotive Technology

The service and repair of today's automobiles is and will continue to be very challenging. Because of technological advances and the quest for higher levels of customer service and satisfaction, today's automotive technician will need greater knowledge and competency levels than ever before.

During the last 20 years, there has been a rapid expansion in the use of electronics and microprocessor controls on automobiles. Today's automobiles can have up to 42 on-board computers and microprocessors that control engine management, emissions, occupant restraints, and on-board navigation systems. Along with their technical skills, today's technicians must also have good computer, communication and customer contact skills.

Stark State College's automotive technology program consists of four associate degree and four certificate of completion options. The four associate degree options are: the Comprehensive Automotive Technology Program, the General Motors Automotive Service Educational Program (GM ASEP), the Toyota T-TEN program, and the Honda PACT program.

Non-degree seeking students may earn a certificate of completion in automotive technology by completing all of the technical courses included in the related associate degree program. The four certificate of completion options are: the Comprehensive Automotive Technology Certificate of Completion Program, the Comprehensive Accelerated Certificate of Completion Program, the Toyota T-TEN program, and the Honda PACT program.

Stark State's automotive technology curriculum blends classroom theory and hands-on training, thus giving the student the knowledge base and competencies they will

need to process technical information, solve automotive problems and use diagnostics effectively. The program's low student-to-instructor ratio provides the student with the opportunity to actively participate in classroom and lab activities. Graduates of Stark State's automotive technology programs will be well prepared for a career as service technicians, dealership service advisors, service or parts managers, independent service facility operators, factory service representatives, insurance claims adjusters or lab test technicians. If students wish to pursue a bachelor degree after graduating from the program, they may transfer their Stark State credits to many well known four-year college and universities.

Stark State's automotive programs have been locally and nationally rated by the Industry Planning Council of the American Automobile Manufacturers Association (AAMA).

All of Stark State's automotive programs follow the guidelines required by the National Institute of Automotive Service Excellence (ASE) and are fully accredited by the National Automotive Technicians Education Foundation (NATEF). Many of Stark State's students pursue and pass ASE certification exams during the course of their instruction.

Graduates of Stark State's associate degree programs will receive an associate degree in applied science in automotive technology.

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.

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Automotive Technology

Comprehensive Automotive Program

Two-Year Degree

The Stark State College comprehensive automotive technology program is a two-year associate degree program designed for students seeking flexibility in their careers.

The curriculum is designed to provide the students with information about the service and repair of all of today's automobiles. Emphasis is placed on the three major domestic manufacturers (General Motors, Ford and Daimler Chrysler) and some foreign vehicles (Toyota, Honda, Isuzu, and Mazda, etc.).

The comprehensive automotive technology program includes all of the tasks from the nationally recognized NATEF task list, for all eight ASE specialty areas.

Students graduating from the comprehensive automotive program will receive an associate degree in applied science in automotive technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
AUT121	Automotive Technical Skills	2
AUT122	Automotive Systems and Engine Technology	4
AUT123	Engine Diagnosis and Major Service	4
ENG124	College Composition †	3
BUS123	Business Mathematics*	4
		17
Semester II		
AUT124	Vehicle Chassis Systems	4
AUT125	Automotive Electrical and Accessory Systems	4
AUT126	Automotive HVAC Systems	2
BUS121	Business Administration*	4
ACC121	Principles of Accounting I*	4
		18
Semester III		
AUT221	Fuel and Emissions Management Systems	3
AUT227	Computerized Vehicle Controls	3
AUT223	Advanced Automotive Electronics	3
AUT224	Automotive Diesel Systems	2
BUS122	Basic Economics	3
CAP120	Business Computer Applications*	4
		18
Semester IV		
AUT225	Automotive Drivetrains I	3
AUT226	Automotive Drivetrains II	3
AUT222	Engine Systems Performance Diagnosis	3
AUT228	Automotive Service Management**	2
AUT230	Technical Project**	
ETD202	Independent Study**	2
AUT233	Automotive Diagnostic Applications	
ENG221	Technical Report Writing	3
ACC130	Business Law and Ethics	3
		19

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Students planning to pursue a degree in engineering technology upon completion of an associate degree should substitute the following courses: ECA122, MTH123, MTH121, PHY121, and SPH122 in place of or in addition to the above marked courses.

** Electives: Select from AUT228, AUT230 or ETD202



A COLLEGE TECH PREP PARTICIPANT

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.

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Automotive Technology

Comprehensive Automotive Program

Two-Year Certificate of Completion

The Stark State College comprehensive automotive technology certificate of completion program is a two-year program that includes only the automotive classes that are in the two-year associate degree program.

The curriculum is designed to provide the student with information about the service and repair of all of today's automobiles. Emphasis is placed on the three major domestic manufacturers (General Motors, Ford and Daimler Chrysler) and some foreign vehicles (Toyota, Honda, Isuzu, and Mazda, etc.).

The comprehensive automotive technology certificate of completion program includes all of the tasks from the nationally recognized NATEF task list, for all eight ASE specialty areas.

Students graduating from the comprehensive automotive technology certificate of completion program will receive a comprehensive automotive technology certificate of completion.

Students desiring to obtain an associate degree in applied science in automotive technology must complete the additional academic courses that are listed in the two-year associate degree comprehensive automotive program.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
AUT121	Automotive Technical Skills	2
AUT122	Automotive Systems and Engine Technology	4
AUT123	Engine Diagnosis and Major Service	4
		<hr/> 10
Semester II		
AUT124	Vehicle Chassis Systems	4
AUT125	Automotive Electrical and Accessory Systems	4
AUT126	Automotive HVAC Systems	2
		<hr/> 10
Semester III		
AUT221	Fuel and Emissions Management Systems	3
AUT227	Computerized Vehicle Controls	3
AUT223	Advanced Automotive Electronics	3
AUT224	Automotive Diesel Systems	2
		<hr/> 11
Semester IV		
AUT225	Automotive Drivetrains I	3
AUT226	Automotive Drivetrains II	3
AUT222	Engine Systems Performance Diagnosis	3
AUT233	Automotive Diagnostic Applications	2
		<hr/> 11

42 TOTAL CREDIT HOURS



A COLLEGE TECH PREP PARTICIPANT

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.

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Automotive Technology

GM ASEP

The General Motors automotive service educational program (GM ASEP) is an associate degree automotive program. It is designed exclusively for use by GM dealers as a source for trained, skilled technicians.

The curriculum is designed to be GM-specific. The program requires that every student be an employee of a GM dealership. The program combines automotive technology courses, related courses, and a strong background in math, reading and electronics.

The GM ASEP curriculum includes all of the tasks from the nationally-recognized NATEF task list, for all eight ASE specialty areas, plus, the content of over 56 GM training courses.

Students graduating from GM ASEP will receive an associate degree in applied science in automotive technology. They will also receive training credit for over 56 GM training courses.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
AUT121	Automotive Technical Skills (GM ASEP)	2
AUT122	Automotive Systems and Engine Technology (GM ASEP)	4
AUT124	Vehicle Chassis Systems (GM ASEP)	4
ENG124	College Composition †	3
BUS123	Business Mathematics*	4
ETD222	Engineering Technology Co-op (GM ASEP)**	2
		<hr/> 19
Semester II		
AUT123	Engine Diagnosis and Major Service (GM ASEP)**	4
AUT125	Automotive Electrical and Accessory Systems (GM ASEP)	4
BUS121	Business Administration*	4
ACC121	Principles of Accounting I*	4
ETD222	Engineering Technology Co-op (GM ASEP)**	2
		<hr/> 18
Summer Semester		
AUT126	Automotive HVAC Systems (GM ASEP)	2
ETD222	Engineering Technology Co-op (GM ASEP)**	2
		<hr/> 4
Semester III		
AUT221	Fuel and Emission Management Systems (GM ASEP)	3
AUT225	Automotive Drivetrains I (GM ASEP)	3
AUT226	Automotive Drivetrains II (GM ASEP)	3
CAP120	Business Computer Applications*	4
ETD222	Engineering Technology Co-op (GM ASEP)**	2
		<hr/> 15
Semester IV		
ACC130	Business Law and Ethics	3
ENG221	Technical Report Writing	3
AUT222	Engine Systems Performance Diagnosis (GM ASEP)	3
AUT223	Advanced Automotive Electronics (GM ASEP)	3
AUT227	Computerized Vehicle Controls (GM ASEP)	3
ETD222	Engineering Technology Co-op (GM ASEP)**	2
		<hr/> 17

73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Students planning to pursue a degree in engineering technology upon completion of an associate degree should substitute the following courses: ECA122, MTH123, MTH121, PHY121, and SPH122 in place of or in addition to the above marked courses.

** Students enrolling in ETD222 must have approval of the automotive technology programs coordinator or the department head of the automotive technology program.



A COLLEGE TECH PREP PARTICIPANT

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Automotive Technology

Comprehensive One-Year Accelerated Certificate of Completion Program

The Stark State College comprehensive accelerated certificate of completion program (CACCP) is a one-year program that contains only the automotive courses listed in the two-year comprehensive automotive program.

The curriculum is designed to be an intensive one-year education in the service and repair of today's automobiles. As in the comprehensive automotive program, emphasis is placed on the three major domestic manufacturers (General Motors, Ford and Daimler Chrysler) and some foreign vehicles (Toyota, Honda, Isuzu, and Mazda, etc.).

The CACCP curriculum is a blend of classroom theory and hands-on lab assignments that follow NATEF guidelines. This allows the student to pursue ASE certification.

Students successfully completing the CACCP curriculum will receive a comprehensive accelerated certificate of completion from Stark State College.

Students desiring to obtain an associate degree in applied science in automotive technology can choose to add the academic courses that are listed in the two-year comprehensive automotive program.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
AUT121	Automotive Technical Skills	2
AUT122	Automotive Systems and Engine Technology	4
AUT124	Vehicle Chassis Systems	6
AUT125	Automotive Electrical and Accessory Systems	4
ETD224	Engineering Technology Co-op*	4
		<hr/>
		20
Semester II		
AUT123	Engine Diagnosis and Major Service	4
AUT126	Automotive HVAC	2
AUT221	Fuel Emission Management Systems	3
AUT223	Advanced Automotive Electronics	3
AUT227	Computerized Vehicle Controls	3
ETD224	Engineering Technology Co-op*	4
		<hr/>
		19
Semester III		
AUT222	Engine System Performance Diagnosis	3
AUT225	Automotive Drivetrains I	3
AUT226	Automotive Drivetrains II	3
AUT233	Automotive Diagnostics Applications	2
ETD224	Engineering Technology Co-op*	4
		<hr/>
		15

54 TOTAL CREDIT HOURS

* ETD224 Engineering Technical Co-op is an elective course which should be taken by Toyota/Lexus or Honda/Acura employees only.

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.

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Automotive Technology

Toyota T-TEN One-Year Certificate of Completion

The T-TEN program is designed exclusively for the student who is seeking a career as a service technician at a Toyota dealership. The T-TEN curriculum is produced by the University of Toyota. It prepares the student for a career with Toyota by providing Toyota's core certification courses that are needed for advancement at a Toyota dealership.

The Toyota technical education network program (T-TEN) can be pursued as a one-year certificate of completion or as an associate degree. Stark State's T-TEN option is an integral part of the comprehensive automotive technology program. Students selecting the T-TEN option begin by enrolling in the comprehensive automotive technology program and select either a certificate of completion option or an associate degree

path. As the student successfully completes the related technical courses in the comprehensive program, they will concurrently take the Toyota T-TEN modules.

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.

Since students will be on a one-year or two-year path, the sequence of Toyota classes may vary from one semester to the next based on the individual student's needs. Toyota classes are scheduled to run on selected Fridays throughout each semester, including the summer, and are a full day in length.

SUGGESTED COURSE SEQUENCE

		Credit Hours
AUT141	Toyota Under-car Systems (Two Toyota Certifications)	2
AUT142	Toyota Electrical Systems (Two Toyota Certifications)	2
AUT143	Toyota Air Conditioning Systems (One Toyota Certification)	1
AUT 251	Toyota Manual Transmissions (One Toyota Certification)	1
AUT252	Toyota Automatic Transmissions (One Toyota Certification)	1
AUT253	Toyota Engine Control Systems (One Toyota Certification)	2
		9

9 TOTAL CREDIT HOURS



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Business Management Technology

The importance of effective management cannot be overstated. In any successful business or government, the skills of good managers are essential to that success. The ability to survive, grow and profit starts with the manager's ability to envision how a business can satisfy marketplace needs. In today's business world, companies are looking for managers who understand technology, can adapt quickly to change, skillfully motivate subordinates, and realize the importance of satisfying customers.

Students who successfully complete this program will be able to formulate goals and strategies to analyze the internal and external environment of business; describe and analyze patterns of organizational behavior within contemporary organizations and apply human relations skills to job situations; identify contemporary approaches to motivation and describe a variety of methods used to create and maintain a positive work environment; describe how personal and organizational values influence managers and their roles; and demonstrate and apply communications skills and quantitative methods.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition †	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT221	Supervision	3
BUS221	Microeconomics	3
MGT227	Operations Management	4
ACC133	Managerial Accounting	4
	Technical Elective	3
		<hr/> 17
Semester IV		
MGT224	Human Resources Management	3
BUS222	Macroeconomics	3
MGT223	Business Decision-Making	4
SOC121	Sociology	3
ACC130	Business Law and Ethics	3
	Technical Elective	3
		<hr/> 19

70 TOTAL CREDIT HOURS

TECHNICAL ELECTIVES

FIN122	Principles of Finance
MGT222	Small Business Management
MGT 232	International Business
MKT226	Supply Chain Management

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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.

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Business Management Technology

Business @ A Distance – Online Option

What is the Consortium?

The Business @ a Distance Consortium is a collaboration of several Ohio two-year colleges cooperating to deliver Web-based business course options to Stark State's associate of applied business degree in business management technology. Member colleges deliver online specialty courses, not offered at Stark State, that transfer into and count toward Stark State College degree requirements.

How does it work?

The student registers for the business management program at Stark State and takes the majority of their course requirements just as they would as a traditional student. During the last two semesters of the sophomore year, the student selects an available group of three to four courses from one of the Consortium members. The student applies for admission to the member college and takes the selected courses online. Once the courses are completed, the student requests that a transcript be sent to Stark State. The online courses are transferred to Stark State and the student is awarded the A.A.S. degree in business management with specialization in the chosen area.

Which colleges are members of the Consortium?

- ▶ Belmont Technical College
- ▶ Edison Community College
- ▶ James A. Rhodes State College
- ▶ Lakeland Community College
- ▶ Lorain Community College
- ▶ Marion Technical College
- ▶ Northwest State Community College
- ▶ Stark State College of Technology
- ▶ Terra Community College
- ▶ Washington State Community College

What consortium program options are currently available online that are not available at Stark State?

- ▶ Human Resource Management
- ▶ Tax Administration
- ▶ Industrial Supervision

More courses/programs are coming online each semester.



How do I start?

Contact Management and Marketing Department Head Jerry Myers at 330-966-5453, Ext. 4347 or by email at jmyers@starkstate.edu or SSCT Campus Consortium Liaison Dr. Glenda Zink at 330-966-5453, Ext. 4927 or by email at gzink@starkstate.edu.

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.

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Business Management Technology

Finance Option

A company's managers must ensure that it has enough money to perform its tasks successfully, in both the present and the future. Adequate funds must be available to buy materials and equipment, pay bills, purchase additional facilities and compensate employees. Finance is the planning, obtaining and managing of the company's funds in order to accomplish its objectives efficiently and effectively.

The goal is that graduates of this option will be able to understand a financial plan and be able to demonstrate a working knowledge of the various investment markets, along with having a foundation for working with the basic principles of taxation. These skills are in addition to the previously mentioned outcomes for students in the business management technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT221	Supervision	3
BUS221	Microeconomics	3
ACC124	Taxation	4
ACC133	Managerial Accounting	4
FIN221	Investments and Securities	4
		<hr/> 18
Semester IV		
MGT224	Human Resource Management	3
BUS222	Macroeconomics	3
MGT223	Business Decision-Making	4
SOC121	Sociology	3
ACC130	Business Law and Ethics	3
FIN122	Principles of Finance	4
		<hr/> 20

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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Business Management Technology

Health Services Option

One of the fastest changing fields in the U.S. today is healthcare with its many HMOs, PPOs and other health service providers. This option is designed to blend our basic management program with a basic knowledge of the healthcare industry, anatomy, insurance, physiology, and medical terminology. This program is designed for the health service person who handles insurance claims after they leave the doctor's office. Insurance claim processors such as Aultcare, Hometown

and Professional Claims Management can fully utilize the skills obtained from a graduate of this program.

The goal is that graduates in this option will demonstrate a working knowledge of claims processing and the health care industry; and be able to communicate using appropriate medical terminology. These skills are in addition to the previously mentioned outcomes for students in business management technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
BIO125	Medical Terminology	3
		<hr/> 18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
ACC127	Quantitative Business Research Methods	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT221	Supervision	3
BUS221	Microeconomics	3
BIO101	Introduction to Anatomy and Physiology	3
SPH121	Effective Speaking	3
ACC133	Managerial Accounting	4
HIT230	Healthcare Delivery in the United States	2
		<hr/> 18
Semester IV		
MGT224	Human Resource Management	3
BUS222	Macroeconomics	3
MGT223	Business Decision-Making	4
SOC121	Sociology	3
ACC130	Business Law and Ethics	3
MAT231	Reimbursement for Healthcare Services	3
		<hr/> 19

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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Business Management Technology

International Business Option

Few changes in the last ten years have had more impact on business than globalization, and this trend will continue in this new millennium. More and more U.S. companies are becoming aware that the way to expand and remain competitive is to enter the global marketplace. Coupled with continually advancing communications technology and the expansion opportunities abroad, global business will continue to grow as rapidly, if not more so, than in the past.

There will be more rapid shifts in the marketplace and less acceptance of imbalances. Trade will increase with former Eastern Bloc countries as they open up their economies to foreign trade and investment.

Graduates of this option will be able to demonstrate a working knowledge of global activities such as exchange rates, the world economy, banking, imports and exports, international law, and will understand the complexities that are prevalent in cultural diversity. These skills are in addition to the previously mentioned outcomes for students in business management technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		16
Semester III		
MGT221	Supervision	3
BUS221	Microeconomics	3
MGT232	International Business	3
ACC130	Business Law and Ethics	3
ACC133	Managerial Accounting	4
		16
Semester IV		
BUS223	International Economics	3
BUS222	Macroeconomics	3
ACC134	International Law	3
SOC225	Cultural Diversity	3
MGT223	Business Decision Making	4
MGT224	Human Resource Management	3
		19

69 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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.

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Business Management Technology

Small Business Option

Small businesses form the core of the U.S. economy. Business with fewer than 500 employees generate 47 percent of total U.S. sales and over half the nation's gross domestic product. Ninety-nine of every 100 U.S. business are small businesses. Small businesses employ about 53 percent of the nation's private non-farm workforce.

Small businesses make tremendous contributions to the economy and to society as a whole. Three of every four new jobs created over the past ten years were at small companies with fewer than employees. Even if students

don't start their own businesses, they will probably work for a small business at some point in their careers. Small businesses are more likely to hire the youngest and the oldest workers. In addition, small businesses offer significant opportunities to women and minorities.

The goal is that graduates of this option will be able to develop a business plan and will understand the complexities of renting versus owning property and equipment. Entrepreneurial spirit will be enhanced. These skills are in addition to the previously mentioned outcomes for students in the business management technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT221	Supervision	3
BUS221	Microeconomics	3
ACC130	Business Law and Ethics	3
ACC133	Managerial Accounting	4
MKT221	Sales	3
		<hr/> 16
Semester IV		
MGT224	Human Resource Management	3
BUS222	Macroeconomics	3
MGT223	Business Decision-Making	4
SOC121	Sociology	3
MGT222	Small Business Management	3
MKT226	Supply Chain Management	3
		<hr/> 19

69 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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.

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Business Management Technology

Tri-State University Transfer Option

This option is a 2+2 degree completion program developed for students who wish to further their education in a golf-related field by obtaining their bachelor's degree from Tri-State University in Angola, IN.

This associate degree program in business management technology transfers completely into Tri-State's school of business where the student can complete a bachelor's of science degree in management or marketing with a specialization in the golf industry.

The bachelor's of science degree includes courses on such industry based topics as golf club design, repair, fitting, turf maintenance, pro-shop management, and golf swing instruction.

This two year associate degree program provides graduates with the same competencies as the regular business management degree program with more emphasis on mathematics to better prepare the student for transfer to Tri-State University.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
MTH121	College Algebra and Trigonometry I	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
MTH222	Statistics	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT221	Supervision	3
BUS221	Microeconomics	3
MGT227	Operations Management	4
ACC133	Managerial Accounting	4
CAP125	Advanced Microsoft Applications	3
		<hr/> 17
Semester IV		
MGT224	Human Resource Management	3
BUS222	Macroeconomics	3
MGT223	Business Decision Making	4
PSY121	General Psychology	3
ACC130	Business Law and Ethics	3
MGT232	International Business	3
		<hr/> 19

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.



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Financial Services Technology

The financial services curriculum provides training in all aspects of the financial planning process. This includes specialized training in credit, insurance, investments, retirement planning, employee benefits, and estate and income tax planning.

Providing personal financial services requires a competence and style similar to that of other professional consulting businesses. The advisor must be familiar with relevant strategies and products and must be able to evaluate each client's situation and unique requirements to recommend a suitable course of action. Financial products include insurance, loans, stocks and mutual funds, bonds and other interest-earning investments, real estate and retirement plans. The financial services professional must be aware of the advantages and shortcomings of the various financial products that a client may consider. Personal financial planning applies to all income levels; not just the wealthy.

The goal of this program is to provide graduates with all the tools and skills necessary to be successful in the undertaking of a career in the financial services field of their choosing. All the technical knowledge required to begin a career in financial services is provided and its application in real world situations is practiced extensively. The curriculum covers all of the knowledge base tested on the Certified Financial Planner examination. Students will be expected to demonstrate their acquired knowledge and abilities as they progress in the program and during the capstone Financial Services and Cases Practices course.

The current business environment requires all prospective employees to have good communication skills, both written and oral, and to be able to interact with co-workers and clients in a professional manner. Employers expect their workers to have strong computational skills, to be computer literate, and to be able to think critically. All students completing a financial services program at Stark State will be introduced to, and provided practice in, these basic competencies, which they are expected to master.

SUGGESTED COURSE SEQUENCE

Semester I		Credit Hours
ENG124	College Composition †	3
BUS123	Business Mathematics	4
BUS121	Business Administration	4
ACC132	Financial Accounting*	4
ACC127	Business Statistics and Quantitative Research	3
		18
Semester II		
ENG123	Business Communication	3
CAP120	Business Computer Applications***	4
BUS122	Basic Economics	3
MKT121	Principles of Marketing	3
FIN123	Fundamentals of Financial Services	4
		17
Semester III		
SPH121	Effective Speaking	3
ACC124	Taxation	4
FIN221	Investments and Securities	4
MKT221	Sales	3
FIN224	Insurance Planning	3
		17
Semester IV		
PSY121	General Psychology**	3
FIN223	Estate and Income Tax Planning	3
FIN222	Retirement Planning and Employee Benefits	3
FIN225	Financial Services Cases and Practices	3
FIN226	Current Financial Service Topics I	3
ACC130	Business Law and Ethics	3
		18

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from ACC121 or ACC122 in place of this course.

** Student may select from PSY124, SOC121, SOC122 or SOC225.

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Information Reporting Technology

Captioning Option

The captioning option in the information reporting technologies program is the outgrowth of the court reporting field and is a highly developed skill that is used to translate spoken communication into visual communication. 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 in various TV/news programs, classrooms, conventions, and conferences. A broadcast captioner can assist millions of deaf and hard-of-hearing persons by captioning television and news programs. VITAC Corporation, a leading captioning company nationwide, partners with Stark State to provide the software, educational, and technical support. Stark State is a training site for VITAC Corporation, for transitional reporters seeking a career change to captioning.

The goal is that graduates will demonstrate the use of good grammar, punctuation and editing skills for transcription preparation and production; conduct research and realtime writing dictionary maintenance for broadcast reporting; communicate clearly and concisely; utilize all information reporting technology; exemplify a high standard of ethics as an information reporting professional and demonstrate employability skills and characteristics as an information reporting professional.

Graduation requirements for captioning option

One 5-minute machine shorthand test of literary at 200 wpm must be passed with 98% accuracy before writing a 30-minute broadcast news program with a TER (Total Error Rates) goal of 98% accuracy or higher based on total word count.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition†	3
CAP120	Business Computer Applications**	4
OAD130	Communication and Transcription Skills	3
CCR121	Realtime Theory I	4
	Social Sciences Elective*	3
		<hr/> 17
Semester II		
BUS123	Business Mathematics	4
BIO101	Introduction to Anatomy and Physiology	3
	Non-technical Track Elective***	3
CCR122	Realtime Theory II	4
CCR229	Realtime Software Applications	1
CCR132	Realtime Writing I	1
		<hr/> 16
Summer I		
CCR129	Speed Building I	4
CCR236	Advanced Theory Principles	3
		<hr/> 7
Semester III		
ENG123	Business Communication	3
CCR230	Basic Broadcast Captioning	3
CCR130	Speed Building II	4
BUS121	Business Administration	4
	IRT Technical Track Elective****	3
CCR237	Realtime Writing II	1
		<hr/> 18
Semester IV		
ACC130	Business Law and Ethics	3
CCR235	Advanced Basic Broadcast Captioning	3
CCR123	Speedbuilding III	4
CCR232	Information Report Internship	2
CCR239	Realtime Writing III	1
CCR238	Realtime Writing IV	1
		<hr/> 14

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from SOC121 or PSY121.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

*** Student may select PSC121, ENG121, BUS222 or BIO125.

**** Students may select from CCR131, BIO127, CHM101, PSC121.

Students are required to purchase a computerized stenograph machine and court reporting student realtime software prior to beginning this program.

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Information Reporting Technology

Judicial Reporting Option

Reporting has joined the ranks of the information technology professions because computers are an integral part of information reporting. Information reporters are using their knowledge and skills to serve as information managers in complicated trials. Freelance reporters now have the ability to capture their deposition in digital format.

The information reporting technologies program offers distance learning opportunities through Web-based education in partnership with Stenograph University Online. Virtually anyone who has access to a computer will be able to take the program online, but the student will be required to have a computerized steno machine before taking any online courses.

The goal is that graduates will demonstrate the use of good grammar, punctuation and editing skills for transcription preparation and production; conduct research and realtime writing dictionary maintenance for broadcast reporting; communicate clearly and concisely; utilize all information reporting technology; exemplify a high standard of ethics as an information reporting professional and demonstrate employability skills and characteristics as an information reporting professional.

Graduation requirements for judicial reporting option

Three 5-minute machine shorthand tests of literary at 180 wpm, jury charge at 200 wpm and courtroom testimony material at 225 wpm must be passed with a minimum of 95% accuracy; must transcribe a simulated RPR skills test at RPR speed levels in 3.5 hours; must write a simulated CCR skills test at a speed of 180-200 wpm literary for 5 minutes.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition†	3
CAP120	Business Computer Applications**	4
OAD130	Communication and Transcription Skills	3
CCR121	Realtime Theory I	4
	Social Sciences Elective*	3
		17
Semester II		
BUS123	Business Mathematics	4
BIO101	Introduction to Anatomy and Physiology	3
CRR131	Legal Terminology	3
CCR122	Realtime Theory II	4
CCR229	Realtime Software Applications (8 weeks)	1
CCR132	Realtime Writing I (8 weeks)	1
		16
Summer I		
CCR129	Speed Building I	4
CCR236	Advanced Theory Principles	3
		7
Semester III		
ENG123	Business Communication	3
CCR231	Judicial Procedures	3
CCR130	Speed Building II	4
BUS121	Business Administration	4
	Non-technical Track Elective***	3
CCR237	Realtime Writing II (8 weeks)	1
		18
Semester IV		
ACC130	Business Law and Ethics	3
	IRT Technical Track Elective****	3
CCR123	Speed Building III	4
CCR232	Information Report Internship	2
CCR239	Realtime Writing III (8 weeks)	1
CCR238	Realtime Writing IV (8 weeks)	1
		14

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from SOC121 or PSY121.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

*** Student may select PSC121, ENG121, BUS222 or BIO125.

**** Students may select from CCR230, BIO125, PSC121

Students are required to purchase a computerized stenograph machine and court reporting student realtime software prior to beginning this program.



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Information Reporting Technology

Realtime Transcription Option

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.

The goal is that graduates will demonstrate the use of good grammar, punctuation and editing skills for transcription preparation and production; conduct research and realtime writing dictionary maintenance for broadcast reporting; communicate clearly and concisely; utilize all information reporting technology; exemplify a high standard of ethics as an information reporting professional and demonstrate employability skills and characteristics as an information reporting professional.

Graduation requirements for realtime transcription

Two 5-minute machine shorthand tests or literary at 115 wpm must be passed with a minimum of 95% accuracy.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition†	3
CAP120	Business Computer Applications**	4
OAD130	Communication and Transcription Skills	3
CCR121	Realtime Theory I	4
		<hr/> 14
Semester II		
BUS123	Business Mathematics	4
BIO101	Introduction to Anatomy and Physiology	3
	Non-technical Track Elective***	3
CCR122	Realtime Theory II	4
CCR229	Realtime Software Applications	1
CCR132	Realtime Writing I	1
		<hr/> 16
Summer I		
CCR129	Speed Building I	4
CCR236	Advanced Theory Principles	3
		<hr/> 7
Semester III		
ENG123	Business Communication	3
	IRT Technical Track Elective	3
CCR130	Speed Building II	4
BUS121	Business Administration	4
CCR237	Realtime Writing II	1
		<hr/> 15
Semester IV		
ACC130	Business Law and Ethics	3
	IRT Technical Track Elective****	3
	IRT Technical Track Elective****	3/4
CCR239	Realtime Writing III	1
CCR238	Realtime Writing IV	1
	Social Sciences Elective*	3
		<hr/> 14/15

66/67 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from SOC121 or PSY121.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

*** Student may select PSC121, ENG121, BUS222 or BIO125.

**** Students may select from CCR123, CCR131, CCR230, CCR231, CCR235, OAD239, MTC121, BIO123, BIO124

Students are required to purchase a computerized stenograph machine and court reporting student realtime software prior to beginning this program.

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Legal Assisting Technology

Legal secretaries and legal assistants are employed in private law firms, offices of public defenders, court systems, government agencies, corporate legal departments, insurance companies, banks, real estate agencies, community service agencies and programs, consumer organizations and health care facilities.

The program prepares students to assist attorneys in the performance of their professional duties.

Today's law firms are redefining their management structure out of economic necessity. Effective use of support staff is becoming increasingly important.

The goal is that graduates will be able to organize work areas, use legal resources, make decisions, and exhibit proficiency in the use of legal office procedures and legal information systems; apply practical knowledge and utilize technical skills such as: data input methods (keyboarding and voice recognition), transcription, proofreading, legal document production, microcomputer applications, legal research, records management, and use of the Internet; demonstrate employability skills and professionalism in legal office occupations, and work in individual, team and group settings; must be able to form ideas and information verbally and in written form, use computational skills for solving legal office problems and making analytic judgments; acquire, organize and evaluate information to make decisions and solve problems in legal environments.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition†	3
OAD121	Keyboarding/Formatting	3
OAD130	Communication and Transcription Skills	3
CAP120	Business Computer Applications**	4
BUS121	Business Administration	4
CCR131	Legal Terminology	3
		<hr/> 20
Semester II		
OAD224	Legal Office Procedures	3
ENG123	Business Communication	3
OAD129	Keyboarding/Skillbuilding (8 weeks)	1
OAD127	Word Processing – Microsoft Word	3
BUS123	Business Mathematics	4
OAD132	Records Management	3
		<hr/> 17
Semester III		
OAD239	Legal Transcription	3
SPH121	Effective Speaking	3
OAD236	Database Applications – Microsoft Access	3
ACC130	Business Law and Ethics	3
ACC121	Principles of Accounting I	4
	Social Sciences Elective*	3
		<hr/> 19
Semester IV		
OAD237	Legal Office Applications	3
OAD235	Legal Research and Writing	3
OAD226	Spreadsheets – Microsoft Excel	3
OAD232	Administrative Information Technology	3
	Practicum	
BUS122	Basic Economics	3
		<hr/> 15

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select SOC121, PSY121 or PSC121.

** Successful completion of OAD102, OAD104, OAD105 and OAD106 is equivalent to and may be substituted for CAP120.

Students who are enrolled at the College for at least one semester and who have passed the Professional Legal Secretary (PLS) examination are eligible to receive credit toward an associate of applied business degree in legal assisting technology, subject to the review and approval of the appropriate department heads.



Bold italicized courses indicate courses that contain content for Microsoft Office Specialist (MOS) certification.



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Marketing Management Technology

The many jobs involved in getting goods and services to market make marketing a diverse and fascinating field. Marketing jobs often provide great opportunities for creativity, personal accomplishment and financial reward.

There are more than 750,000 people employed as marketing, advertising and public relations managers. Marketing managers develop the firm's detailed marketing strategy. With the help of staff, they determine the demand for products and services offered by the firm and its competitors. They also identify potential customers. Marketing managers develop pricing

strategy and work with advertising and sales managers to promote the firm's products and services to attract potential customers.

The goal is that graduates of the marketing management technology degree, or one of its options, will be able to apply mathematical skills appropriate to a management occupation; demonstrate proficiency with computers consistent with job demands; develop analytical skills in identifying and solving marketing/business problems; identify target markets for specific goods and services; determine the limits of test marketing techniques; use statistical methodology to evaluate test subjects, and develop a market plan.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MKT121	Principles of Marketing	3
BUS221	Microeconomics	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT121	Principles of Management	3
BUS222	Macroeconomics	3
MKT221	Sales	3
MKT222	Advertising	3
ACC133	Managerial Accounting	4
MKT227	Consumer Behavior	3
		<hr/> 19
Semester IV		
MKT229	Market Planning	4
MKT228	Business to Business Marketing	3
SOC121	Sociology	3
ACC130	Business Law and Ethics	3
MKT233	Market Research	3
		<hr/> 16

69 TOTAL CREDIT HOURS

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Marketing Management Technology

E-Commerce Marketing Option

Recently, the widespread adoption of intranets, extranets, and the acceptance of the Internet as a business platform have created a foundation for electronic commerce that offers the potential for organizations to streamline complex processes, lower costs, and improve productivity. Business to business e-commerce is poised for rapid growth in the future.

The goal is that graduates of this option will be able to develop a Web site; understand the role of the Internet/intranet; and use the Internet for obtaining research information. These skills are in addition to the previously mentioned outcomes for students in the marketing management technology program.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
ECA228	Internet/Intranet Software Design and Development	3
		<hr/> 17
Semester II		
MKT121	Principles of Marketing	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
IMT124	Internet Design Tools	3
		<hr/> 16
Semester III		
MGT121	Principles of Management	3
BUS221	Microeconomics	3
MKT232	Internet Marketing	2
MKT222	Advertising	3
ACC133	Managerial Accounting	4
ECA229	Microsoft Server Side Scripting	3
		<hr/> 18
Semester IV		
MKT229	Market Planning	4
BUS222	Macroeconomics	3
MKT228	Business to Business Marketing	3
SOC121	Sociology	3
ACC130	Business Law and Ethics	3
ECA225	Client Side Scripting	3
		<hr/> 19

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Marketing Management Technology

Logistics Option

Logistics is that part of the supply chain process that plans, implements and controls the efficient, effective flow and storage of goods, services, and related information from point of origin to point of consumption in order to meet customer requirements. It includes the areas of transportation, warehousing, order processing, vendor negotiation, and distribution.

Effective logistics management can improve a firm's marketing effort by establishing consistent and dependable customer service levels.

The U.S. has one of the world's most highly developed logistics infrastructures, giving consumers and businesses access to an enormous variety of goods and services.

The goal of this option, in addition to those included for the Marketing Management program is to give the student an understanding of the role of logistics in national and multinational business and government activity. The student will be able to use a variety of analytical tools and techniques to solve logistics problems.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications	4
BUS123	Business Math	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MKT121	Principles of Marketing	3
BUS221	Microeconomics	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT121	Principles of Management	3
BUS222	Macroeconomics	3
MKT226	Supply Chain Management	3
MKT232	Internet Marketing	2
ACC133	Managerial Accounting	4
SOC121	Sociology	3
		<hr/> 18
Semester IV		
MKT229	Market Planning	4
MKT233	Market Research	3
MKT234	Principles of Transportation	3
MKT235	Introduction to Logistics	4
ACC130	Business Law and Ethics	3
		<hr/> 17

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Marketing Management Technology

Sales Option

Effective selling isn't simply a matter of persuading others to buy. In fact, it's more accurately described today as helping others to satisfy their wants and needs.

U.S. Census data show that nearly 15% of the total labor force is employed in personal selling. When we include selling for non-profit organizations, we find that more than nine million people are employed in sales.

In many firms, the people working in the marketing department began their careers with the sales force. Sales experience gives them an understanding of the problems faced by salespeople, as well as the needs of customers. The people who determine marketing strategy must understand exactly how the products or services are sold and the buying methods of customers.

Many sales people earn a good living. Compensations are generally paid in proportion to the amount of sales generated.

Selling provides an excellent opportunity for people who do not like close supervision but still want the security of working for a large organization. A career in sales enables individuals to operate virtually as independent business people.

The goal is that graduates of this option will be able to make presentations in a professional manner using PowerPoint software; understand the concepts of customer relationship between selling and marketing; and be able to develop a sales force compensation system. These skills are in addition to the previously mentioned outcomes for students in the marketing management technology program.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
BUS123	Business Mathematics	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MKT121	Principles of Marketing	3
BUS221	Microeconomics	3
ACC127	Business Statistics and Quantitative Research	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT121	Principles of Management	3
BUS222	Macroeconomics	3
MKT221	Sales	3
ACC133	Managerial Accounting	4
MKT227	Consumer Behavior	3
		<hr/> 16
Semester IV		
MGT221	Supervision	3
SOC121	Sociology	3
ACC130	Business Law and Ethics	3
MKT229	Market Planning	4
MKT226	Supply Chain Management	3
MGT224	Human Resource Management	3
		<hr/> 19

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Operations Management Technology

The heart of the free enterprise system in the United States has always been its manufacturers.

Operations management has become a challenging and vital element of American business. U.S. firms are as good as, or better than, competitors anywhere in the world.

Some of the major developments implemented by U.S. firms include: a customer focus, cost savings through site selection, faster response time to the market through flexible manufacturing, more savings on the plant floor through lean manufacturing, computer-aided manufacturing, total quality management and better statistical control techniques.

Operations refers to any process that accepts inputs and uses resources to change those inputs into useful outputs. Operations may include production operations such as computer manufacturers, building contractors and coal mines, or service operations such as hospitals, universities and banks.

The goal is that entry level graduates will be able to analyze and compare the major tasks of production and operations management; understand and apply quality control and other total quality management concepts; demonstrate statistical process control techniques; describe how personal and organizational values influence operations managers; and demonstrate and apply communications skills and quantitative methods.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BUS121	Business Administration	4
CAP120	Business Computer Applications*	4
MTH121	College Algebra and Trigonometry I	4
ENG124	College Composition†	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester II		
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
MTH222	Statistics	3
ENG123	Business Communication	3
ACC132	Financial Accounting	4
		<hr/> 16
Semester III		
MGT227	Operations Management	4
MGT221	Supervision	3
ACC133	Managerial Accounting	4
BUS221	Microeconomics	3
SOC121	Sociology	3
		<hr/> 17
Semester IV		
PHY101	Principles of Physics	3
MGT224	Human Resource Management	3
ACC130	Business Law and Ethics	3
MGT223	Business Decision Making	4
BUS222	Macroeconomics	3
MKT226	Supply Chain Management	3
		<hr/> 19

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

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Business Technologies

Career Enhancement Programs*

Stark State College recognizes that not all students will seek an associate's degree. Individuals might need to develop specific sets of skills to qualify for or improve their performance in a given career setting. In response to this need, Stark State has developed "career enhancement" programs which document a student's proficiency in a variety of knowledge areas. The following series of courses are offered to non-degree seeking individuals desiring an opportunity to gain or improve marketable skills.

These courses are offered on campus, however, on-site training is also available for companies.

Students who decide to enroll in an associate degree program may apply these courses toward the degree if it is in the same area of study. Application for the "career enhancement" program should be made to the appropriate department head or academic dean.

Certificates of Competency

Accounting and Finance

Financial Accounting Business Statistics and Quantitative Research (ACC127)
Financial Accounting (ACC132)
Intermediate Accounting I (ACC221)
Intermediate Accounting II (ACC222)

Managerial Accounting Business Statistics and Quantitative Research (ACC127)
Financial Accounting (ACC132)
Managerial Accounting (ACC133)
Cost Accounting (ACC223)

Taxation Taxation (ACC124)
Estate and Income Tax Planning (FIN223)
Advanced Taxation Topics (ACC233)

Administrative Information

Realtime Transcription Realtime Theory I (CCR121)
Realtime Theory II (CCR122)
Speed Building I (CCR129)
Speed Building II (CCR130 - *Must pass Realtime Speed Requirements*)

Broadcast Captioning Basic Broadcast Captioning (CCR230)
(*for Reporting Professionals*) Advanced Broadcast Captioning (CCR235)
Technical Electives (9 hours see Dept. Head)

Broadcast Captioning Realtime Theory I (CCR121)
(*for Non-reporting Professionals and Students*) Realtime Theory II (CCR122)
Speed Building I (CCR128)
Speed Building II (CCR129)
Speed Building III (CCR123)
IRT Internship (CCR232)
Basic Broadcast Captioning (CCR230)
Advanced Broadcast Captioning (CCR235)
Realtime Software Applications (CCR229)
Technical Electives (6 hours see Dept. Head)

* These programs offer professional development for those already employed in the field and may also serve as a starting point for those considering the pursuit of a full associate degree program. Existing knowledge or skill base is assumed for certain courses. Absence of same may require prerequisite coursework. Applicants must secure department head or academic dean approval before completing the registration process. Non-degree seeking students may not be eligible for financial aid.

Administrative Information (continued)

Judicial Reporting Realtime Theory I (CCR121)
Realtime Theory II (CCR122)
Speed Building I (CCR128)
Speed Building II (CCR129)
Speed Building III (CCR123)
Realtime Software Applications (CCR229)
Judicial Procedures (CCR230)
Legal Terminology (CCR131)
Communication and Transcription Skills (OAD130)
Realtime Writing Elective or Technical Track Elective
IRT Internship (CCR232)

Legal Assisting Legal Transcription (CCR128)
Legal Office Procedures (OAD224)
Legal Research and Writing (OAD235)
Legal Office Applications (OAD237)
Legal Terminology (CCR130)

Desktop Publishing Desktop Publishing – Microsoft Publisher (OAD128)
Graphic Design Concepts (OAD131)
Presentations – Microsoft PowerPoint (OAD233)
Web Publishing – Microsoft Front Page (OAD238)

Management and Marketing

Quality Management Principles of Management (MGT121)
Supervision (MGT221)
Business Decision-Making (MKT233)
Operations Management (MGT227)

International Business International Business (MGT232)
International Economics (BUS223)
International Law (ACC134)

Sales Sales (MKT221)
Consumer Behavior (MKT227)
Principles of Marketing (MKT121)
Supply Chain Management (MKT226)

Supervision Principles of Management (MGT121)
Supervision (MGT221)
Cultural Diversity (SOC225)
Effective Speaking (SPH121)

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.

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Engineering Technologies

Students majoring in engineering technologies may pursue the associate of applied science degree in a variety of engineering technology programs such as: applied industrial technology, civil engineering technology, design engineering technology, electric power utility technology, electrical engineering technology, electrical maintenance technology, electronic engineering technology, environmental, health and safety technology, heating, ventilation and air conditioning technology and mechanical engineering technology. Engineering technology is a field in which scientific principles and techniques are applied toward solutions of problems in business and industry. The engineering technician typically works as a member of a professional team (technician/technologist), assisting the engineer and coordinating work performed by skilled workers. Areas of responsibility include: research, design, development, supervision, sales and production. Applied industrial technology technicians use similar abilities, with emphasis on areas of supervision, operations and skilled maintenance in manufacturing.

In addition to these programs, the engineering technologies division offers a number of career enhancement certificates designed to enhance specific sets of skills.

Bachelor's degree:

In most of the associate degree programs, all or nearly all courses may be applied toward a bachelor's degree in technology. Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer.

High school students:

High school students graduating from a *college tech prep* program can get a head start on their engineering technology associate degrees.

For more information, please call Stark State's Office of Admissions/Student Services at 330-966-5450.



Applied Industrial Technology

The applied industrial technology degree program offers many career paths from industrial or facilities supervision to skilled mechanical or electrical maintenance. The comprehensive curriculum includes both basic and advanced manufacturing techniques as well as skilled mechanical and electrical maintenance principles and applications.

The program provides knowledge of traditional manufacturing methods as well as state-of-the-art and emerging technologies. Areas of expertise include

robotics, precision machining, CNC, welding, hydraulics/pneumatics, pumps, pipefitting, mechanical and electrical skilled maintenance, computer control automation and advanced materials and processes.

The Stark State program is designed in a building block style which includes basic apprenticeship level courses. These courses provide the base to which students can add additional courses to allow completion of the associate degree program.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
MTH101	Introduction to Algebra	4
ENG124	College Composition †	3
MET123	Material Science	2
MST121	Blueprint Reading	2
		<hr/> 14
Semester II		
MTH121	College Algebra and Trigonometry	4
MST134	Hydraulic and Pneumatic Systems*	6
EST130	Electrical Circuits and Devices	4
MST131	Statistical Process Control Charts	2
		<hr/> 16
Semester III		
ENG221	Technical Report Writing	3
PHY121	Physics I	4
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
IET228	Introduction to Robotics	2
MET225	Manufacturing Processes	3
		<hr/> 15
Semester IV		
MST221	Mechanical Drive Components	3
	Arts/Humanities/Social Sciences Elective**	3
	Technical Electives***	13
		<hr/> 19

64 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May also be taken as two 8-week courses: MST122, MST123.

** Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS221, BUS222, PSC121

*** Select a minimum of 13 hours from AIT122, AIT123, IET223, AIT221, AIT124, MST124, MST125, MST126, MST133, MST135, MST225, EET142, EET143, IET270, DET125.

Note: See Applied Industrial Career Enhancement Programs on page 88 for additional academic opportunities

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Applied Industrial Technology

One-Year CNC Technical Certificate

This one-year state-accredited technical certificate is designed to prepare the student with the appropriate skills needed to work in today's world of computer numeric controlled precision machining. This program is designed for both the individual returning to add to their existing skills and those entering the CNC precision machining field for the first time. Upon successful completion of the CNC one-year technical certificate program, the individual will have approximately one half the necessary credits towards an associate of applied science in applied industrial technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
MTH121	College Algebra and Trigonometry I	4
AIT122	Machine Tools	3
IET270	Dimensional Metrology and Inspection I	3
MST121/DET121	Blueprint Reading or Engineering Drawing	2/3
		<hr/> 12/13
Semester II		
DET125	Basic AutoCad	3
AIT123	Advanced Machine Tools	4
IET123	CNC Programming	4
ECA122	Computer Applications for Technical Professionals	3
		<hr/> 14
Summer		
AIT221	Advanced CNC	4
MET123	Material Science	2
		<hr/> 6

32/33 TOTAL CREDIT HOURS

A graduate of this program will earn a state-accredited certification.

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Civil Engineering Technology

Civil engineering technicians assist civil engineers in planning, designing and constructing highways, bridges, dams, tunnels, airports, water supply systems, buildings and other structures.

During the planning stages of a project, technicians estimate costs, prepare specifications for materials and work in design, drafting or surveying. During construction, they assist the contractor in scheduling, inspecting for conformance to blueprints and specifications and numerous other responsibilities.

The civil engineering technician graduating from Stark State College of Technology will have a basic theoretical

background covered in the classroom. This background will then be enhanced by a series of strong practical laboratory applications which include both indoor and outdoor settings. Civil engineering technology students will study and use current computer programs in estimating and structural design as well as other areas.

The civil engineering technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in civil engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
CET121	Building Materials and Construction Methods	3
CET122	Architectural Drafting I	3
ETD121	Engineering Technology Seminar	1
		18
Semester II		
MTH122	College Algebra and Trigonometry II	3
PHY122	Physics II	4
MET124	Statics and Strengths of Materials	4
ECA122	Computer Applications for Technical Professionals	3
CET125	Soil Mechanics	3
CET124	Highway and Map Drawing	2
		19
Semester III		
ENG221	Technical Report Writing	3
MTH221	Concepts of Calculus	3
CET227	Surveying I	3
CET223	Structural Design I	3
CET222	Concrete and Asphalt Testing	3
CET232	Land Planning and Design	3
		18
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
CET226	Estimating	3
CET224	Structural Design II	3
CET225	Site and Building Service Systems	3
CET228	Surveying II	3
	Arts/Humanities/Social Sciences Elective*	3
		18

73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



A COLLEGE TECH PREP PARTICIPANT

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Civil Engineering Technology

Architectural Option

This program will provide students with the opportunity to analyze the role of architecture in the building construction industry. It will develop their understanding of the design process and the relationship of the architect, engineer and contractor.

In the classroom, laboratory and field, students will be introduced to the fundamentals of both manual and computer-aided drafting, fundamentals of design, building construction, mechanical equipment and the basic engineering of structures. The program emphasizes the establishment of basic knowledge of the aesthetics of architecture, marketable talent in drafting/design and an understanding of the principles of engineering as they relate to architecture.

Graduates of this technical major may work as technicians in architectural and engineering offices, construction estimating, general contracting, drafting, building supply firms, public agencies and as technical salespeople.

The civil engineering technology program is accredited by the technology accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in civil engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
CET121	Building Materials and Construction Methods	3
CET122	Architectural Drafting I	3
ETD121	Engineering Technology Seminar	1
		<hr/> 18
Semester II		
MTH122	College Algebra and Trigonometry II	3
PHY122	Physics II	4
MET124	Statics and Strengths of Materials	4
ECA122	Computer Applications for Technical Professionals	3
CET123	Architectural Drafting II	3
DET125	Basic AutoCAD	3
		<hr/> 20
Semester III		
ENG221	Technical Report Writing	3
MTH221	Concepts of Calculus	3
CET227	Surveying I	3
CET223	Structural Design I	3
CET232	Land Planning and Design	3
CET235	Construction Management, Job Cost and Safety	3
		<hr/> 18
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
CET226	Estimating	3
CET225	Site and Building Service Systems	3
CET233	Architectural Design	3
CET234	A/E CAD	2
	Arts/Humanities/Social Sciences Electives*	3
		<hr/> 17

73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



A COLLEGE TECH PREP PARTICIPANT

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Civil Engineering Technology

Construction Management Option

This program will provide students with the opportunity to study the managerial and technological facets of the residential and commercial construction industry. By combining technical instruction concerning construction with management concepts, the program will prepare students to take on a supervisory role in the field. It will develop their understanding of current building codes, construction materials and processes, principles of design, and construction safety.

In the classroom, laboratory and field, students will be introduced to the fundamentals of design, building construction and the basic engineering of structures.

This background will then be further enhanced by exposing students to such topics as interpreting construction documents, the importance of communication skills, project scheduling, as well as understanding job cost reports.

Graduates of this technical major may work as technicians in project management, construction estimating, general contracting, specification writing, project scheduling, construction sales, public agencies and project inspecting.

A graduate of this program will earn an associate of applied science degree in civil engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
CET121	Building Materials and Construction Methods	3
CET237	Interpreting Construction Documents	2
DET125	Basic AutoCAD	3
ETD121	Engineering Technology Seminar	1
		<hr/> 17
Semester II		
MTH122	College Algebra and Trigonometry II	3
PHY122	Physics II	4
MET124	Statics and Strengths of Materials	4
ECA122	Computer Applications for Technical Professionals	3
CET125/CET222	Soil Mechanics or Concrete and Asphalt Testing	3
		<hr/> 17
Semester III		
ENG124	College Composition †	3
MTH221	Concepts of Calculus	3
CET227	Surveying I	3
CET223	Structural Design I	3
CET232	Land Planning and Design	3
CET235	Construction Management, Job Cost and Safety	3
		<hr/> 18
Semester IV		
ENG221	Technical Report Writing	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
CET225	Site and Building Service Systems	3
CET239	Building Code Applications	2
CET226	Estimating	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 17

69 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121

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Civil Engineering Technology

Surveying Option

Today's surveying technician must have skills in many areas, including mathematics, law, history, methods of measurement, graphics, global positioning and site planning.

A surveying technician assists professional surveyors in performing subdivision design, property and topographic surveys, establishing control for aerial surveying, preparing legal descriptions and controlling construction projects.

In the classroom, laboratory and field, we introduce students to the fundamentals of surveying, equipment usage, graphics (both manual and computerized), subdivision planning, control surveys, global positioning principles, subdivision design and legal principles of boundary location.

The graduate will have theoretical background and strong practical applications experience.

Upon completion of the surveying major, graduates are qualified to work in the following areas: establishing land boundaries, researching deeds, drafting, land development, global positioning surveying, construction layout and control, collection of data for charts and maps, and preparation of legal descriptions.

The civil engineering technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in civil engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
CET121	Building Materials and Construction Methods	3
CET227	Surveying I	3
ETD121	Engineering Technology Seminar	1
		18
Semester II		
MTH122	College Algebra and Trigonometry II	3
PHY122	Physics II	4
MET124	Statics and Strengths of Materials	4
ECA122	Computer Applications for Technical Professionals	3
CET124	Highway and Map Drawing	2
CET228	Surveying II	3
		19
Semester III		
ENG221	Technical Report Writing	3
MTH221	Concepts of Calculus	3
CET222	Concrete and Asphalt Testing	3
CET232	Land Planning and Design	3
CET231	Legal Principles of Surveying	3
DET125	Basic AutoCAD	3
		18
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
CET226	Estimating	3
CET229	Surveying III	3
CET221	Surveying Graphics	3
CET236	Global Positioning System	3
	Arts/Humanities/Social Sciences Elective*	3
		18

73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



A COLLEGE TECH PREP PARTICIPANT

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Design Engineering Technology

Design engineering technicians prepare detailed drawings based on rough sketches, specifications and calculations. They determine the strength, type and quantity of materials and give the dimensions necessary to make detailed parts or assemblies.

Design engineering technicians might specialize in the design of tools, machines or products for structural, electrical, civil and mechanical systems and represent ideas graphically through traditional drawings or computer-aided design (CAD) systems.

The design engineering technology program is regularly evaluated and approved or revised by an

advisory committee of professionals who represent local businesses and industries. This ongoing evaluation process ensures that design engineering technology students receive state-of-the-art education that will help them get good jobs.

The program in design engineering technology is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in design engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
DET121	Engineering Drawing	3
ENG124	College Composition †	3
ETD121	Engineering Technology Seminar	1
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 15
Semester II		
DET122	Descriptive Geometry	3
DET124	Working Drawings	3
DET125	Basic AutoCAD	3
MTH122	College Algebra and Trigonometry II	3
PHY122	Physics II	4
ECA122	Computer Applications for Technical Professionals	3
		<hr/> 19
Semester III		
DET231	Tool Design	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
MET225/AIT122	Manufacturing Processes or Machine Tools II	3
MET124	Statics and Strengths of Materials	4
MTH221	Concepts of Calculus	3
	Design Elective I (CAD)	3
		<hr/> 19
Semester IV		
DET223	Kinematics	3
MET228	Machine Design	4
DET226	Geometric Dimensioning and Tolerancing	2
ENG221	Technical Report Writing	3
	Arts/Humanities/Social Sciences Elective*	3
	Design Elective II (CAD)	3
		<hr/> 18

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



A COLLEGE TECH PREP PARTICIPANT

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Electric Power Utility Technology*

Line Worker Technician or Substation Technician Options

The local and regional electric utility industry has experienced a shortage of candidates for employment. Technology and required employee job skills within the electric utility industry are constantly changing; increasing the demand for a skilled workforce. The ultimate goal of the electric utility industry is to attract college level trainees to the electric utility industry. Graduates of the Stark State electric utility technology program can expect to be actively recruited.

This program is designed to give students the advantage required for easy acquisition of desirable long-term employment in the electric utility industry. Graduates of this program will be more employable and be able to

command a higher starting wage rate than the typical entry-level employee. The graduating student will also enjoy an increased likelihood of promotion through an enhanced ability to be a productive addition to a company team. The electric power utility technology degree program will prepare graduates for employment opportunities in a variety of electrical fields, with an emphasis in the line worker area. (The overhead line technology curriculum prepares the student for hands-on, transmission support system installation/maintenance and electrical substation maintenance.)

A graduate of this program will earn an associate of applied science degree.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
MTH101	Introduction to Algebra	4
ENG124	College Composition †	3
EUT121/EUT123	Overhead Line Technology I or Substation Technology I	6
		<hr/> 16
Semester II		
MTH121	College Algebra and Trigonometry I	4
EET120	DC Circuit Analysis	4
SPH122	Inter-group Communications	3
EUT122/EUT124	Overhead Line Technology II or Substation Technology II	6
		<hr/> 17
Semester III		
ETD202	Engineering Technology Division – Independent Study	2
		<hr/> 2
Semester IV		
PHY101	Principles of Physics	4
BUS122	Basic Economics	3
EET122	AC Circuit Analysis	4
ACC130	Business Law and Ethics	3
EUT221/EUT224	Overhead Line Technology III or Substation Technology III	6
		<hr/> 20
Semester V		
EET226	Transmission and Distribution	3
ENG221	Technical Report Writing	3
EET128	NEC and Electrical Systems Design	2
EST129	Switchgear, Transformers and Controls	2
EUT222/EUT225	Overhead Line Technology IV or Substation Technology IV	7
		<hr/> 17

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Enrollment and participation in this program is at the sole discretion of the FirstEnergy Corp.



A COLLEGE TECH PREP PARTICIPANT



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Electrical Engineering Technology

Our society is becoming increasingly dependent on electrical energy. Consumer products and the industrial processes required to produce them have been greatly influenced by the application of electrical and electronic technology. This has had an impact on research, development, testing, manufacturing and maintenance of existing and new products. This expanded "high-tech" effort has resulted in an increasing need for highly trained technicians in all areas of technology.

Electrical engineering technology is concerned with the generation, transmission and distribution of electrical power; its application to power and control industrial processes and wiring systems design.

Electrical technicians are part of the engineering team needed to fulfill the work in this broad and challenging field. The electrical engineering technician must have theoretical knowledge of the field and extensive hands-on experience with laboratory techniques and equipment.

Job opportunities as an electrical engineering technician include: transmission and distribution planner, industrial process control technician, electrical contractor, project manager, electrical technician, engineering assistant and service technician.

The application of electronics to electrical systems control has greatly influenced the educational background that electrical engineering technicians need. As a result, the electrical engineering technology program includes a number of electronic courses, as well as the traditional courses in electrical power, machines and control.

The electrical engineering technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in electrical engineering technology.

SUGGESTED COURSE SEQUENCE

			Credit Hours
Semester I			
ECA122	Computer Applications for Technical Professionals		3
EET120	DC Circuit Analysis		4
ETD121	Engineering Technology Seminar		1
ENG124	College Composition †		3
MTH121	College Algebra and Trigonometry I		4
PHY121	Physics I		4
			<hr/> 19
Semester II			
EET122	AC Circuit Analysis		4
EET123	Electronic Devices and Circuits		4
EET125	Circuit Manufacturing Techniques		1
EET126	Electrical Machines		4
ECA222	Introduction to C++ Programming		3
MTH122	College Algebra and Trigonometry II		3
			<hr/> 19
Semester III			
DET125	Basic AutoCad		3
EET128	NEC and Electrical Systems Design		2
SPH121/SPH122	Effective Speaking or Inter-group Communications		3
EET227	PLCs and Industrial Controls I		3
MTH221	Concepts of Calculus		3
ENG221	Technical Report Writing		3
			<hr/> 17
Semester IV			
EET226	Transmission and Distribution		3
EET228	PLCs and Industrial Controls II		3
EET232	Industrial Electronics		3
EET233	Technical Project – Electrical		1
	Arts/Humanities/Social Sciences Elective*		3
EET129	Optics		2
			<hr/> 15

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121.

Note: A "C" or better is required in technical prerequisite courses.



A COLLEGE TECH PREP PARTICIPANT

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Electrical Engineering Technology

Electro-Mechanical Option

This program will allow the student an in-depth study of the main principles and applications of electrical engineering technology with an emphasis on mechanical engineering technology fundamentals. In today's competitive world, electrical engineering technicians with mechanical skills are in demand.

Electrical engineering technology is concerned with the generation, transmission, and distribution of electrical

power; its application to power and control industrial processes and wiring systems design. The mechanical coursework focuses on materials, stress, strain, heat, friction, and vibration.

A graduate of this program will earn an associate of applied science in electrical engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
EET120	DC Circuit Analysis	4
ETD121	Engineering Technology Seminar	1
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 19
Semester II		
EET122	AC Circuit Analysis	4
EET123	Electronic Devices and Circuits	4
EET126	Electrical Machines	4
ECA222	Introduction to C++ Programming	3
MTH122	College Algebra and Trigonometry II	3
		<hr/> 18
Semester III		
DET125	Basic AutoCad	3
MET123	Material Science	2
MET124	Statics and Strengths of Materials	4
EET227	PLCs and Industrial Controls I	3
MTH221	Concepts of Calculus	3
ENG221	Technical Report Writing	3
		<hr/> 18
Semester IV		
SPH121/122	Effective Speaking or Inter-group Communications	3
MET222	Fluid Power	4
MET225	Manufacturing Processes	3
MET227	Thermodynamics and Heat Transfer	3
EET129	Optics	2
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121.

Note: A "C" or better is required in technical prerequisite courses.

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Electrical Maintenance Technology

This degree program provides an understanding of the installation, operation, maintenance and repair of various electrical systems in electrical and electronic equipment. Electrical maintenance concentrates on the industrial environment and prepares students to maintain and repair electrical/electronic equipment used in commercial and industrial facilities.

Graduates can look forward to jobs as electronic service technicians, electrical service technicians, field service technicians, electricians, electrical maintainers and electronic or electrical equipment installers.

The curriculum includes electrical and electronic fundamentals, digital electronics, electrical and electronic trouble-shooting, digital communications, transformers, National Electric Code, electrical machines, industrial controls, programmable controllers, hydraulics, pneumatics and refrigeration. This knowledge is essential for graduates who are required to maintain and repair modern electrical/electronic equipment.

A graduate of this program will earn an associate of applied science degree in electrical maintenance technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
EET120	DC Circuit Analysis	4
ETD121	Engineering Technology Seminar	1
MST122	Hydraulic and Pneumatic Principles	3
ENG124	College Composition †	3
PHY121	Physics I	4
MTH121	College Algebra and Trigonometry I	4
		<hr/> 19
Semester II		
ECA122	Computer Applications for Technical Professionals	3
ECA222	Introduction to C++ Programming	3
EET122	AC Circuit Analysis	4
EET123	Electronic Devices and Circuits	4
EET125	Circuit Manufacturing Techniques	1
EET126	Electrical Machines	4
		<hr/> 19
Semester III		
EET128	NEC and Electrical Systems Design	2
EET227	PLCs and Industrial Controls I	3
EST221	Electronic Troubleshooting	3
EET244	Electronic Telecommunications	3
EET262	Pulse and Digital Integrated Circuits	4
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
		<hr/> 18
Semester IV		
EST129	Switchgear, Transformers and Controls	2
EET228	PLCs and Industrial Controls II	3
EET232	Industrial Electronics	3
ENG221	Technical Report Writing	3
HVC121	HVAC Principles I	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 17

73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121.

Note: A "C" or better is required in technical prerequisite courses.



A COLLEGE TECH PREP PARTICIPANT

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Electronic Engineering Technology

Space vehicles, C.A.T. scans, personal computers, electronically controlled machines, computerized automobile functions and global communication are just a few achievements of modern industry.

Well-educated and well-trained technical personnel are needed for research, development, production, testing, installation, maintenance and repair of electronic equipment, machinery and products.

Electronic engineering technicians must have theoretical knowledge of the field and extensive "hands-on" experience in laboratory techniques and equipment. Stark State combines theoretical classroom education with "hands-on" laboratory experience to ensure excellent technical knowledge and skills.

Job opportunities available to electronic engineering technicians include: audio technician, biomedical, industrial network, customer service technician, process control technician, field engineering specialist and electronic technician.

The electronic engineering technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in electronic engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
EET120	DC Circuit Analysis	4
ETD121	Engineering Technology Seminar	1
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 19
Semester II		
DET125	Basic AutoCAD	3
EET122	AC Circuit Analysis	4
EET123	Electronic Devices and Circuits	4
EET125	Circuit Manufacturing Techniques	1
ECA222	Introduction to C++ Programming	3
MTH122	College Algebra and Trigonometry II	3
		<hr/> 18
Semester III		
EET262	Pulse and Digital Integrated Circuits	4
EET129	Optics	2
EET230	Electronic Circuits I	3
EET248	Workstation Interfacing	3
MTH221	Concepts of Calculus	3
ENG 221	Technical Reporting Writing	3
		<hr/> 18
Semester IV		
EET 225	Digital Communications and Systems Analysis	3
EET231	Electronic Circuits II	3
EET232	Industrial Electronics	3
EET235	Technical Project – Electronic	1
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 16

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121.

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Environmental, Health and Safety Technology

The associate of applied science degree in environmental technology prepares students to apply their skills in science, engineering, communication and economics to issues affecting the environment. This includes such issues as the quality of air, water and land. Other areas include workplace safety, environmental regulation and compliance and various environmental systems.

Environmental career fields include data collection, instrumentation, regulation, health and safety, natural resources, waste minimization and pollution prevention. Additionally, the environmental technician is in demand with a vast array of manufacturing firms.

The program has been developed with ongoing input from an advisory committee of industry experts to ensure the curriculum includes the knowledge and skills needed in business and industry. Graduates of Stark State's environmental program will be uniquely qualified to meet the needs of both the private and public sectors as they face growing environmental regulation and concern.

A graduate of this program will receive an associate of applied science degree in environmental technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
MTH121	College Algebra and Trigonometry I	4
ENG124	College Composition †	3
BIO126	Science, Energy and the Environment	4
ETD121	Engineering Technology Seminar	1
CHM121	General Chemistry	4
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 19
Semester II		
CHM122	Organic and Biological Chemistry	4
MTH222	Statistics	3
ECA122	Computer Applications for Technical Professionals	3
ENV221	OSHA - 40-hour HAZWOPER	2
ENV121	Regulations and Compliance	3
		<hr/> 15
Semester III		
ENV222	Industrial Processes and Pollution	3
ENV223	Basic Geology/Hydrology	3
ENV224	Air Sampling, Analysis, and Control	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 15
Semester IV		
ENV236	Environmental, Health and Safety Special Projects	3
ENG221	Technical Report Writing	3
ENV225	Solid and Hazardous Waste Sampling, Analysis and Management	3
ENV226	Water Sampling, Analysis, and Control	3
ENV228	Health and Safety	3
ENV230	OSHA 8-hour Refresher**	1
		<hr/> 15/16

64/65 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121

** ENV 230 may be taken by students who wish to complete annual refreshers of their 40-hour HAZWOPER training.

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Heating, Ventilating, and Air Conditioning Technology

Today's heating, ventilation, air conditioning and refrigeration (HVAC/R) industry makes possible modern living including medicine, technology, and personal comfort at home and on the job, as well as food preservation. In fact, it supports almost every component of our way of life. The HVAC industry is growing and becoming more technologically complex. As a result, industry leaders have mandated that employees have a variety of skills including technical problem solving, communications, and customer relations. The new HVAC employee must be a professional in every way and has great potential for advancement. Areas of opportunity include factory or distributor technical representative; factory, distributor or dealer sales professional; system design technician; distributor or dealer customer service manager; project estimator; project manager; dealer field service technician and more.

Stark State College offers a commercial/industrial lab as well as a residential lab totaling approximately 4000 square feet. Both labs have a wide variety of modern HVAC and refrigeration equipment due to the many area HVAC and refrigeration businesses that support the program with state-of-the-art equipment. The HVAC program also has a 750-square-foot full sheet metal lab.

Students have the opportunity to obtain a variety of HVAC/R certifications in the program including ARI ICE (industry competency exams) tests, EPA refrigerant certification, and NATE (North American Technician Excellence) exams. Four NATE-approved courses are also offered for those seeking re-certification.

A graduate of this program will earn an associate of applied science degree in heating, ventilating and air conditioning technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ENG124	College Composition †	3
MTH101	Introduction to Algebra	4
HVC121	HVAC Principles I	3
CET121	Building Materials and Construction	3
ECA122	Computer Applications for Technical Professionals	3
	Arts/Humanities/Social Sciences Elective*	3
		19
Semester II		
HVC122	HVAC Principles II	3
HVC123	Sheet Metal Layout I	3
HVC227	HVAC Field Installation Techniques/Procedures	4
HVC234	HVAC Electrical Systems and Applications	3
PHY101	Principles of Physics	4
		17
Semester III		
MST121	Blueprint Reading	2
MST126	Pipefitting Principles and Applications	4
HVC222	HVAC Design and Application	3
HVC223	HVAC System Operation and Troubleshooting - Heating	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Arts/Humanities/Social Sciences Elective*	3
		18
Semester IV		
HVC224	HVAC System Operation and Troubleshooting - Cooling	3
HVC226	Sheet Metal Layout II	3
HVC232	Advanced HVAC Applications and Controls	3
HVC235	Refrigeration	3
HVC236	Advanced HVAC Electrical Applications	3
ENG221	Technical Report Writing	3
		18

72 TOTAL CREDIT HOURS

Following graduation from Stark State's HVAC program, students may study at Ferris State's (2+2) online program and receive a bachelor of science in HVAC technology.

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



A COLLEGE TECH PREP PARTICIPANT

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Heating, Ventilating, and Air Conditioning Technology

One-Year Technical Certificate Program

This is a one-year state-accredited technical certificate in HVAC Technology. It provides the students with many of the core technical courses in heating ventilation and air conditioning (HVAC) technology. This program is approximately one-half the requirements for the associate of applied science in HVAC technology. Many students who earn this one-year technical certificate continue in the program to get an associate degree in HVAC technology.

Students also have the opportunity to take the EPA certification test.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
HVC121	HVAC Principles I	3
HVC122	HVAC Principles II	3
HVC123	Sheet Metal Layout I	3
ECA122	Computer Applications for Technical Professionals	3
HVC227	HVAC Field Installation Techniques and Procedures	4
		<hr/> 16
Semester II		
CET121	Building Materials and Construction	3
HVC234	HVAC Electrical Systems and Applications	3
HVC223	HVAC System Operation and Troubleshooting – Heating	3
		<hr/> 9
Summer		
HVC224	HVAC System Operation and Troubleshooting – Cooling	3
MTH101	Introduction to Algebra	4
		<hr/> 7

32 TOTAL CREDIT HOURS

A graduate of this program will earn a state-accredited certification.



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Heating, Ventilating, and Air Conditioning Technology

Certificate of Competency Programs

The HVAC technician program prepares each technician to work in the HVAC trade as a trainee or as an entry-level technician. Emphasis is placed upon familiarization of HVAC systems and safety in the workplace.

COMMERCIAL REFRIGERATION

		Credit Hours
MTH101	Introduction to Algebra	4
HVC235	Refrigeration	3
HVC234	HVAC Electrical Systems and Applications	3
		<hr/> 10

HVAC/R ELECTRICAL SYSTEMS

MTH101	Introduction to Algebra	4
HVC234	HVAC Electrical Systems and Applications	3
HVC236	Advanced HVAC Electrical Applications	3
		<hr/> 10

HVAC TECHNICIAN (Level I)

Prerequisite: MTH101 or passing score on Compass Algebra Test

HVC121	HVAC Principles I	3
HVC122	HVAC Principles II	3
HVC227	HVAC Field Installation Techniques and Procedures	4
HVC234	HVAC Electrical Systems and Applications	3
		<hr/> 13

HVAC TECHNICIAN (Level II)

Prerequisite: Successful completion of HVAC Technician Level I

MST121	Blueprint Reading	2
MST126	Pipefitting Principles and Applications	4
HVC222	HVAC Design and Application	3
HVC223	HVAC System Operation and Troubleshooting - Heating	3
HVC224	HVAC System Operation and Troubleshooting - Cooling	3
		<hr/> 15

HVAC DESIGN AND APPLICATION TECHNICIAN

Prerequisite: Successful completion of HVAC Technician Level I

HVC222	HVAC Design and Application	3
HVC232	Advanced HVAC Applications	3
HVC235	Refrigeration	3
CET121	Building Materials and Construction	3
		<hr/> 12



A COLLEGE TECH PREP PARTICIPANT

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Mechanical Engineering Technology

The purpose of the mechanical engineering technology program is to provide education for the application of scientific and engineering principles in the support of mechanical engineering activities. This associate degree technician program is similar to a bachelor degree, but the associate program places more emphasis on practical application and experience.

As a mechanical engineering technician, students may work in many areas. In design and development, they would prepare sketches, drawings and layouts, and analyze proposed equipment components. Analysis of cost and practical value of design must be incorporated. Therefore, technicians must understand the mechanical principles involving design, tolerance, stress, strain, friction and vibration.

Technicians may become involved in testing equipment and materials for recommending design changes, improving performance or eliminating production

problems. Therefore, technicians must be able to conduct projects, record and represent data, analyze results and prepare formal reports.

The mechanical engineering technician may be involved in the selection and coordination of equipment and processes for manufacturing. Therefore, they must have an understanding of processes, materials and supervision.

The mechanical engineering technology program provides students with theory and practical application through many hours of actual lab test work.

The program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in mechanical engineering technology.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ETD121	Engineering Technology Seminar	1
MET123	Material Science	2
DET121	Engineering Drawing	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 17
Semester II		
MET124	Statics and Strength of Materials	4
MET225/AIT122	Manufacturing Processes or Machine Tools	3
MTH122	College Algebra and Trigonometry II	3
PHY122	Physics II	4
ECA122	Computer Applications for Technical Professionals	3
		<hr/> 17
Semester III		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
MET228	Machine Design	4
MET221	Advanced Strength of Materials	2
MET222	Fluid Power	4
DET125	Basic AutoCAD or ProEngineer (DET131)	3
MTH221/MTH223	Concepts of Calculus or Analytical Geometry	3/4
		<hr/> 19/20
Semester IV		
MET223	Dynamics	2
EST130	Electrical Circuits and Devices	4
MET227	Thermodynamics and Heat Transfer	3
MET226	Technical Project – Mechanical	2
ENG221	Technical Report Writing	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 17

70/71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121



A COLLEGE TECH PREP PARTICIPANT

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Mechanical Engineering Technology

Fuel Cell Technology Track

The mechanical engineering technology – fuel cell track incorporates mechanical, electrical, and chemical technologies to provide education for the application of scientific and engineering principles that is focused on alternative energy sources, and more specifically fuel cell technology.

Graduates of this program may become involved in preparing drawings, proposing component parts and materials, testing equipment, conducting projects,

analyzing cost, assessing production problems, writing technical reports, and improving performance.

The mechanical engineering technology program is accredited by the Technology Accreditation Commission of the Accreditation Board for Engineering and Technology (TAC of ABET).

A graduate of this program will earn an associate of applied science degree in mechanical engineering technology.

SUGGESTED COURSE SEQUENCE

Semester I		Credit Hours
ETD121	Engineering Technology Seminar	1
MET123	Material Science	2
MET229	Introduction to Alternative Energy and Fuel Cells	2
DET121	Engineering Drawing	3
CHM121	General Chemistry	4
MTH121	College Algebra & Trigonometry I	4
PHY121	Physics I	4
		<hr/> 20
Second Semester		
MET124	Statics & Strength of Materials	4
MET225/AIT122	Manufacturing Processes or Machine Tools	3
ENG124	College Composition †	3
MET230	Analysis and Applications of Types of Fuel Cells	3
MTH122	College Algebra & Trigonometry II	3
ECA122	Computer Applications for Technical Professionals	3
		<hr/> 19
Third Semester		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
MET222	Fluid Power	4
MET231	Fuel Cell Systems	2
DET125	Basic AutoCAD or Basic Pro Engineer (DET131)	3
MTH221/MTH223	Concepts of Calculus or Analytical Geometry-Cal I	3/4
		<hr/> 15/16
Fourth Semester		
EST130	Electrical Circuits and Devices	4
MET227	Thermodynamics and Heat Transfer	3
MET232	Fuel Cell Project	2
ENG221	Technical Report Writing	3
	Arts/Humanities/Social Science Elective*	3
		<hr/> 15

TOTAL CREDITS 69/70

† Based on SSCT placement score.

* Arts/Humanities/Social Science Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121.

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Engineering Technologies

Career Enhancement Programs

Stark State College recognizes that not all students will seek an associate's degree. Students might need to develop specific sets of skills to qualify for or improve performance in a given career setting. In response to this need, Stark State has developed "career enhancement" programs which document a student's proficiency in a variety of knowledge areas. The following series of courses are offered to non-degree and degree seeking individuals desiring an opportunity to gain or improve marketable skills.

We welcome all inquiries and requests from companies that may wish to create their own specific certificate

program tailored to meet their needs, incorporating classes from any and all college programs. These courses are offered on a continuing basis at our campuses, but it is also possible to have many classes take place on-site at company locations as well. We will also develop specific courses for your company's needs.

Students enrolling in an associate degree program may apply these courses toward the degree if it is in the same area of study. Application for the "career enhancement" program should be made to the appropriate department head or academic dean.

Certificates of Competency

Applied Industrial Technology

Basic Industrial Maintenance	Intro to Algebra (MTH101)
	Electrical Circuits and Devices (EST130)
	Hydraulic and Pneumatic Systems (MST134)
	Blueprint Reading (MST121)
Industrial Hydraulics and Pneumatics	Hydraulic and Pneumatic Systems (MST134)
	Basic Pumps (MST125) (8 wks)
	Pipefitting Principles and Applications (MST126) (8 wks)
	Plumbing and Pipe Code Principles (MST135)
Precision Machining and CNC Programming	Machine Tools (AIT122)
	Advanced Machine Tools (AIT123)
	CNC Programming (AIT121)
Quality Assurance Specialist	Statistical Process Control (MST131)
	Dimensional Metrology and Inspection I (IET270)
	Quality Systems, Audits, and Certifications (IET268)
Mechanical Drive Systems	Blueprint Reading (MST121)
	Mechanical Drive Components (MST221)
	Basic Pumps (MST125)
	Hydraulic and Pneumatic Systems (MST134)

Welding (MIG, TIG, or SMAW)	Principles of Welding (MST127)
	Welding Lab (MST128)
	<i>Choose <u>one</u> of the three below depending on your area of focus</i>
	Tungsten Inert Gas Welding (TIG) (MST226)**
	Metal Inert Gas Welding (MIG) (MST227)**
	Shielded Metal Arc Welding (SMAW) I (MST228)**

**AWS testing also available at applicable course completion

Civil Engineering Technology

Architectural Drafting	Architectural Drafting I (CET122)
	Architectural Drafting II (CET123)
	Basic AutoCAD (DET125)
	A/E CAD (CET 234)
	Building Materials and Construction Methods (CET121)
Civil/Surveying Drafting	Interpreting Construction Documents (CET237)
	Highway and Map Drawing (CET124)
	Basic AutoCAD (DET125)
	Surveying Graphics (CET221)
	Building Materials and Construction Methods (CET121)
Construction Materials Inspection	Building Materials and Construction Methods (CET121)
	Concrete and Asphalt Testing (CET222)
	Soil Mechanics (CET125)

(Continued on page 91)

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Engineering Technologies

Career Enhancement Programs* *(continued from page 90)*

Certificates of Competency

Civil/Surveying	Surveying I (CET227) Surveying II (CET228) Surveying III (CET229) Surveying Graphics (CET221) Global Positioning System (CET236)	Industrial Electricity and Electronics	College Algebra and Trigonometry I (MTH121)* DC Circuit Analysis (EET120) AC Circuit Analysis (EET122) Electronic Devices and Circuits (EET123) Industrial Electronics (EET232) National Electric Code (EET128)
<u>Design Engineering Technology</u>		<u>Mechanical Engineering Technology</u>	
AutoCAD	Basic AutoCAD (DET125) Customizing AutoCAD (DET126) Advanced AutoCAD (DET230)	Machine Design	Advanced Strength of Materials (MET221) Machine Design (MET122) Technical Project (MET226)
Computer-Aided Design	Jig and Fixture Design (DET221) Die Design (DET225) Geometric Dimensioning and Tolerancing (DET226)	Mechanical Power	Machine Design (MET122) Fluid Power (MET222) Electrical Circuits and Devices (EST130)
<u>Electrical/Electronic Engineering Technology</u>		*A prerequisite <u>may</u> be required depending upon your placement test score.	
Electrical/Electronic Troubleshooting	College Algebra and Trigonometry I (MTH121)* DC Circuit Analysis (EET120) AC Circuit Analysis (EET122) Electronic Devices and Circuits (EET123)		
Industrial Controls	College Algebra and Trigonometry I (MTH121)* DC Circuit Analysis (EET120) AC Circuit Analysis (EET122) Electrical Machines (EET126) PLCs and Industrial Controls I (EET227) PLCs and Industrial Controls II (EET228)		

These programs offer professional development for those already employed in the field and may also serve as a starting point for those considering the pursuit of a full associate degree program. Existing knowledge or skill base is assumed for certain courses. Absence of same may require prerequisite coursework. Applicants must secure department head or academic dean approval before completing the registration process. Non-degree seeking students may not be eligible for financial aid.

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General Studies

By its very nature, the general studies division is multi-disciplinary. Its departments offer courses that provide the foundation on which success in all the College's degree and certificate programs ultimately rely. Nearly all the College's students take coursework through the general studies division since most technical degree programs require 21 credits in these areas of study. The general studies division also offers the courses that comprise the College's Transfer Module.

The mission statement of Stark State College indicates that we are concerned with, among other things, preparing students for education beyond the associate degree; helping students acquire positive attitudes toward society, self and work; and fostering participative, intelligent and informed citizenship.

The general studies faculty support this mission by providing students with expanded learning and enhanced analytical skills. The transferable skills, which are a fundamental basis to successful work performance, future growth and education, have a high priority. Our goal is to provide a foundation for lifelong growth and development leading to higher levels of knowledge, skill and competency. Students are presented opportunities to develop skills for problem-solving and conflict resolution using language logically, critically and creatively.

Through the general studies curriculum, Stark State College addresses the whole person in terms of values, self-awareness and understanding. Self-awareness includes helping students to understand, use and present technical information. It focuses upon techniques of self-analysis and the skills needed to find work that our students can do well and enjoy. A high premium is placed upon developing effective interpersonal skills and the attitudes and abilities required to work purposefully and effectively with others.

Associate of Science Degree (A.S.)

Stark State College offers an associate of science degree for the student who is an undeclared major or undecided about the course of study to pursue. It is also a perfect course of study for the health general student who may be awaiting admission to a specific health technology.

The associate of science degree is jointly awarded by Stark State College and Kent State University. The program gives students the option of pursuing a four-year Bachelor of Science degree at a four-year college or university.

Due to the proximity of the two campuses, Stark State College and Kent State University - Stark Campus have established a specific program. The following principles apply in a reciprocal program:

- Stark State students will take a minimum of 45 credits at Stark State College and a minimum of 15 credits at the Kent State University - Stark campus.

- Kent State – Stark students will take a minimum of 45 credits at Kent State - Stark and a minimum of 15 credits at Stark State College.
- A specific number of courses in English (9 credits), mathematics (6 credits), arts and humanities (6 credits), social science (9 credits), and natural and physical sciences (7 credits) will generally be required.

Students in the associate of science degree program must meet with advisors on both campuses involved for appropriate advising and to be certain that selected courses for completion of the associate of science degree will transfer to the four-year college or university selected.

For additional information about the associate of science degree, please contact the department head, sciences.

Associate of Technical Studies Degree (A.T.S.)

The Associate of Technical Studies (A.T.S.) Degree is awarded for the successful completion of a program in technical education that is individually planned by the student and advisors to meet a specific need that is not available in any of the current degree programs. This interdisciplinary program is intended for the individual who has been gainfully employed in an occupation for several years and is interested in obtaining credit for previous training and experience as well as additional coursework to enhance career opportunities. A minimum of 18 semester hours must be earned in the major area of concentration. A committee composed of the major and minor department heads and the major division chairperson will work out the program of study with the student. Final approval will be granted by the vice president for instructional and corporate services.

All associate degree programs must contain a minimum of 30 semester credit hours of technical courses, 15 semester credit hours each of basic related and general studies courses. The program must identify the course in each of these areas that will meet the educational needs of the individual.

The area of specialization can be formed either by:

1. a combination of technical courses selected from technical programs offered by the College to serve the educational needs of the individual that are not addressed by a program currently being offered, or by
2. courses or training received from another post-secondary institution, vocational center or institution that is judged to be of college level and for which the College awards degree credit to a maximum of 30 semester credit hours, and
3. students are encouraged to take 3 - 5 credit hours from the interdisciplinary studies (IDS) sequence.

The educational program must be approved prior to the student's having earned 30 semester hours of credit at the College.

Applications for this degree are available in the Office of Admissions/Student 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.

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Health Technologies

Health technologies are those areas in which all health personnel are working toward the common goal of providing the best possible service in patient care and health promotion. There is a large cluster of health care-related professions and personnel whose functions include assisting, facilitating or complementing the work of the physicians and other specialists in the health care system.

Individuals in many health care fields work without direct supervision, while others can only work in a supervised setting. As machines and techniques change, the individual must be able to accept new innovations to ensure continued demand for their services.

Health care personnel are highly regulated. After showing their proficiency in the classroom as practitioners of their art, they take certifying exams and are licensed by state or federal agencies, and their titles are protected by certification. To receive accreditation or certification in a technology, the faculty, college and curriculum must be reviewed and must meet the standards of professional health accreditation bodies. All of the degree granting technologies in the health technologies division have received multiple-year accreditation or certification.

Health technologies students at Stark State College spend time in the classroom and laboratory, learning the techniques and skills of their profession. Having learned these skills, students work and learn in a clinical setting to gain practical experience in their field under the supervision of a clinical instructor. Upon completion of their studies, students may sit for certifying exams to receive their titles.

Acceptance to Stark State College does not ensure acceptance into a particular health program. Students must apply to their program of choice. See Application Requirements for Health Technologies.



Application Requirements for Health Technologies

Applications for the Health Technologies are available in the **Office of Admissions/Student Services**. Applications that have been filled out are to be returned to the **Registration Office**. The following steps should be completed by anyone wishing to apply to a health program.

1. Submit a Stark State College of Technology application and an official high school transcript to the **Registration Office**.
2. Contact the Office of Admissions/Student Services to make arrangements to take the COMPASS pre-admission placement tests if applicable. The COMPASS test is not required for applicants to health programs who transfer appropriate college credit. In cases when the COMPASS test is required, ACT test results may be used in place of the COMPASS test as long as the applicant has graduated from high school within the last two years.
3. Submit official college transcripts from any other institutions to the **Registration Office**. (It is the student's responsibility to review the evaluated transcript for accuracy before submitting the health application.)
4. Meet with an advisor to discuss all course and GPA requirements.
5. Complete all program-specific tour, volunteer or testing requirements. Submit the appropriate form to the **Registration Office**.

Information on program-specific requirements and deadlines can be obtained by contacting the **Office of Admissions/Student Services** for a health application packet.

Applicants for the nursing LPN to RN option are accepted on a selective basis. Any applicant who is not accepted in a given year must reapply the next year to be considered. Applications to this program are available on April 1 at the **Office of Admissions/Student Services**. The applicant should submit the application to the **Registration Office** as soon as possible after that date. However, the application will not be considered complete until all requirements are complete.

Applicants are accepted to the other health technologies on a rolling admissions (first come, first placed) basis. Once a class is full for a particular year, valid applications are accepted for the next year. These applications are available in the **Office of Admissions/Student Services**, but should not be submitted to the **Registration Office** until all requirements are met. Please see the application packet for details about requirements.

Admission to a health technology involves expenses beyond tuition and books. Students are responsible for expenses incurred for program and health requirements. These expenses may range from approximately \$100 to \$900. The **Office of Admissions/Student Services** can provide more specific information. Expenses for dental hygiene exceed this range due to the clinical component of the program.

Practice in various health professions requires specific physical skills and abilities. Questions about the competencies required of health technology applicants should be discussed with an admissions counselor.

According to various sections of the *Ohio Law and Regulations for Certification and Licensure Boards*, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

Stark State College is committed to the principle of equal opportunity and does not discriminate on the basis of race, religion, national origin, gender, sexual orientation, age or disability. The College's equal opportunity guidelines apply to admission to all health technology programs. The College strives to assure a diverse representation of students within the health technology programs. Members of minority groups are encouraged to apply.

Specific information about application requirements for health technologies can be obtained from the **Office of Admissions/Student Services** at 330-966-5450 or 1-800-797-8275.

Dental Hygiene Program

Dental hygienists are important members of the dental health care team who are licensed to work with dentists in the delivery of dental care. Hygienists combine knowledge and clinical skills to plan and provide dental hygiene care for patients. They use interpersonal skills to motivate and instruct individual patients and community groups on methods to prevent oral disease and to maintain oral health.

The profession welcomes men and women of all ages and offers career opportunities with excellent income and scheduling flexibility. While most dental hygienists work in general or specialty dental offices and clinics, alternative opportunities include public health departments, nursing homes, school systems, private industry, academic institutions and dental sales manufacturers.

Stark State's program consists of one semester of eligibility (pre-application) courses and four semesters plus one summer session of academic coursework and hands-on learning experiences in the classroom, laboratory, clinic and community. An important feature of the program is the on-campus Dental Hygiene Clinic which is open to the public. The hundreds of hours of supervised patient care experiences provide excellent skill and professional development training.

Enrollment in the program is limited. Admission is offered to eligible applicants on a space-available basis. The dental hygiene program requires a separate application; admission to Stark State does not automatically mean acceptance into the dental hygiene program. Applicants must meet specific eligibility criteria, as described in program informational materials. Applicants must meet the following eligibility requirements:

- Be a high school graduate or have a GED certificate.
- Complete SSCT's Compass Assessment Test and take any courses recommended as a result of the test.
- Complete four eligibility (pre-application) courses – ENG124, PSY121, CHM121, BIO121 and their prerequisites according to the eligibility rules regarding minimum grade, age of course, and number of repeats/drops.
- Achieve a GPA of at least a 2.75 for the four eligibility courses.
- Maintain an overall college GPA of at least 2.00.
- Score at the 60th percentile or above on the PAX test.
- Complete the dental office experience requirement.
- Complete specified supplemental requirements.

Specific physical requirements are necessary to perform dental hygiene functions. Details are provided in program information materials or may be obtained from the dean of student services.

The goal of Stark State's program is to prepare students to demonstrate knowledge and competencies essential for the delivery of dental hygiene services and to enable them to assume the responsibilities for providing patient care. Graduates will understand the role of the dental hygienist and of other dental health team members; will be prepared to adapt to changing demands of the oral health care profession; and will seek opportunities for continuous professional development.

Graduates are eligible to take the Dental Hygiene National Board and Northeast Regional Board examinations, both of which are required for licensure in Ohio. Licensure is mandatory for employment in Ohio as a dental hygienist. Other states may have different licensing requirements.

According to Section 4715.21 of the Ohio Revised Code, applicants for licensure must submit to an FBI background check.

Dental hygiene applicants/students are responsible for informing the program director of any misdemeanor related to alcohol or drugs, or felony convictions so that they may be informed of the steps the Ohio State Dental Board will take before considering their application for licensure.

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. The Commission on Dental Accreditation can be contacted at 312-440-4653; at 211 East Chicago Avenue, Chicago, IL 60611; www.ada.org

The Stark State College Dental Hygiene Program has the following written articulation agreements for bachelor in science degree completion programs with:

1. Ohio State University, Dental Hygiene Program, Section of Primary Care, College of Dentistry
2. East Tennessee State University, Dental Hygiene Program

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

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.

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Dental Hygiene Program

SUGGESTED COURSE SEQUENCE

		Credit Hours
Summer I	Eligibility Courses	
CHM121	General Chemistry	4
BIO121	Anatomy and Physiology I	4
ENG124	College Composition †	3
PSY121	General Psychology	3
		<hr/> 14
Semester I		
DHY121	Head, Neck and Oral Anatomy	2
DHY122	Oral Histology and Embryology	1
DHY123	Dental Radiography	3
DHY131	Fundamentals of Dental Hygiene Practice	4
BIO122	Anatomy and Physiology II	4
		<hr/> 14
Semester II		
DHY124	Periodontics I	1
DHY125	Dental Materials	3
DHY126	Pathology	2
DHY132	Dental Hygiene Theory I	2
DHY133	Clinical Dental Hygiene I	2
BIO221	Microbiology**	4
		<hr/> 14
Summer II		
DHY134	Clinical Dental Hygiene IA	1
		<hr/> 1
Semester III		
DHY221	Nutrition in Dentistry	1
DHY222	Dental Pharmacology	2
DHY223	Community Oral Health	2
DHY231	Dental Hygiene Theory II	2
DHY232	Clinical Dental Hygiene II	4
SOC121	Sociology	3
		<hr/> 14
Semester IV		
DHY224	Periodontics II	1
DHY233	Dental Hygiene Theory III	2
DHY234	Clinical Dental Hygiene III	5
SPH121	Effective Speaking	3
	Social Sciences Elective*	3
		<hr/> 14

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select any PSY/SOC course of three credit hours or more, SWK127 or PHL122.

** May not be taken earlier than three years prior to enrollment in DHY121.



A COLLEGE TECH PREP PARTICIPANT

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.

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Emergency Fire Services

The fire service is a noble and gratifying career. Firefighters are called upon to respond to many different situations. The main goals of a firefighter are to save life, protect property, to render humanitarian and special services, and to safeguard the environment. On any given day a firefighter may be called upon to respond to animal rescues, brush fires, structural fires, car fires, childbirth, hazardous materials incidents, water rescue, and more. Firefighters are confronted with challenging situations and must act quickly and decisively to mitigate these incidents to protect the public and themselves from harm. Firefighters are held in high regard by the public they serve. Today's firefighters are cross trained

to also serve as paramedics. A firefighter/paramedic is ready to serve the public at all levels of emergency response.

Stark State College offers a two-year associate in applied science degree of emergency fire services technology. The level I and II firefighter certification course, EMT-basic, and paramedic certification courses are included within this degree pathway, as well as courses designed to enhance the skills necessary to function as a firefighter/paramedic. The associate degree of emergency fire services will provide the initial knowledge and skills necessary for this profession.

SUGGESTED COURSE SEQUENCE

		Credit Hours
NOTE: The following two courses must be taken prior to Semester I		
EMS121	Emergency Medical Technician - Basic*	5
BIO101	Introduction to Anatomy and Physiology**	3
		<hr/> 8
Semester I		
EMS122	Paramedic I/Seminar	10
ENG124	College Composition †	3
		<hr/> 13
Semester II		
EMS221	Paramedic II/Seminar	10
MTH101	Introduction to Algebra	4
PSY121	General Psychology	3
		<hr/> 17
Semester (offered Summer Session only)		
EMS222	Paramedic III/Seminar	4
		<hr/> 4
Semester III		
FST228	Firefighter I and II***	10
CAP120	Computer Applications	4
		<hr/> 14
Semester IV		
FST226	Line Officer Leadership	3
SPH121	Effective Speaking	3
PHY101	Principles of Physics	4
FST225	Hazardous Materials	3
		<hr/> 13

69 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* EMS121 must be completed prior to applying to the paramedic program.

** BIO127 may be substituted for BIO101. (*You must complete either BIO101 or BIO127 in order to enroll in EMS122.*)

*** See emergency fire services coordinator for options regarding this course.

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony will not be accepted into the emergency fire services and the emergency medical services programs at Stark State College. Persons convicted of a misdemeanor may not be accepted into the emergency fire services and emergency medical services programs at Stark State College. For more information, contact the dean of student services and the applicable licensure/certification board

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.

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Emergency Medical Services

Paramedics are highly regarded health professionals. Public awareness has increased due to television and public events.

The world of emergency medical services (EMS) is very dynamic, changing and evolving continually. Paramedics have many new challenges in the care of the ill and injured requiring a higher standard of learning, particularly with interests of national security. The field of paramedicine is evolving to new areas beyond emergency care in the streets.

Stark State College offers a two-year associate in applied science degree of emergency medical services technology. The EMT-basic and paramedic certification courses are included within this degree pathway, as well as courses designed to enhance management skills in the healthcare industry. The EMS associate degree will provide the initial knowledge and skills necessary for this profession.

SUGGESTED COURSE SEQUENCE

NOTE: The following two courses must be taken prior to Semester I		Credit Hours
EMS121	Emergency Medical Technician - Basic*	5
BIO101	Introduction to Anatomy and Physiology**	3
		8
Semester I		
EMS122	Paramedic I/Seminar	10
ENG124	College Composition †	3
		13
Semester II		
EMS221	Paramedic II/Seminar	10
MTH101	Introduction to Algebra	4
FST224	Legal Aspects	2
		16
Summer (offered Summer Session only)		
EMS222	Paramedic III/Seminar	4
		4
Semester III		
CAP120	Business Computer Applications	4
PHY101	Principles of Physics	4
PSY121	General Psychology	3
HIT230	Health Care Delivery in the US	2
		13
Semester IV		
OTA223	Life Span Development	5
FST225	Hazardous Materials	3
BUS121	Business Administration	4
SPH121	Effective Speaking	3
		15

69 TOTAL CREDIT HOURS

EMT-Paramedic One-year Certificate

SUGGESTED COURSE SEQUENCE

NOTE: This courses must be taken prior to Semester I		Credit Hours
EMS121	Emergency Medical Technician - Basic***	5
		5
Semester I		
EMS122	Paramedic I	10
BIO101	Introduction to Anatomy and Physiology**	3
		13
Semester II		
EMS221	Paramedic II	10
ENG124	College Composition †	3
		13
Summer (offered Summer Session only)		
EMS222	Paramedic III	4
		4

35 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* EMS121 must be completed prior to applying to the paramedic program.

** BIO127 may be substituted for BIO101.

(You must complete either BIO101 or BIO127 in order to enroll in EMS122.)

*** EMS121 is a pre-requisite for EMS122. A student can waive this course by showing proof of current State of Ohio Certification.

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.

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Emergency Medical Services

The emergency medical technician (EMT) is an integral part of the healthcare system in today's society, providing emergency medical services (EMS) in a wide variety of situations in the pre-hospital setting. EMT-basics, intermediates and paramedics are an extension of the Emergency Department and have received increasing attention and public awareness due to television and public events.

Stark State College offers emergency medical services training including EMT-basic and paramedic. First responder and intermediate certification courses, while not routinely scheduled may be available.

The EMT curricula follow the National Department of Transportation and Ohio Objectives. Completion of the

certification courses will allow a student to take the *National Registry Certification Exam*, which is required by the state of Ohio for certification as an EMT at any level. The EMS Courses consist of classroom and lab sessions, including hands-on training in an ambulance on campus. Additionally, training in various hospitals and infield internship with fire departments and EMS squads is required.

Critical thinking and physical agility are among the skills required to function as an EMT. Emergency Services are highly regarded and respected by our community and throughout the country. A graduate of Stark State College's EMS training will find their career to be very challenging and rewarding.

EMT-Basic Certification

ADMISSION REQUIREMENTS

- Age 17 or in the last year of high school, OR 18 and out of high school
- Proof of proficiency in reading English as demonstrated on SSCT COMPASS test
- Meet admission requirements as set forth in OAC 4765-8-01

EMT-Paramedic

ADMISSION REQUIREMENTS

- Current EMT-Basic Certification in the State of Ohio
- Current Healthcare Provider Basic Life Support Certification
- Meet admission requirements as set forth in OAC 4765-8-01

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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.

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Health Information Technology

Health information technology is one of the fastest growing occupations in the country today. According to the *Occupational Outlook Handbook*, a career as a health information specialist or technician is one of the top jobs of the future.

Graduates of health information technology associate degree programs are known as health information technicians or registered health information technicians (RHIT). Common job titles held by health information technicians in today's job market include: coder, medical record technician, registered health information technician, data analyst, reimbursement specialist and others. It is anticipated that job titles will change as health care enterprises expand their reliance on information systems and the electronic health record.

Health information technicians generally perform technical duties vital to the operation of a health information management department. These may include analysis of the medical record; collection and preparation of statistical data, coding and abstracting of diseases and operations, and quality improvement functions. One of the most important job functions is to maintain the confidentiality of patient information and ensure the integrity of the record.

Registered health information technicians primarily are employed in hospitals, long-term care and outpatient facilities. In a small facility, the accredited health information technician may have full responsibility for the operation of the medical record department; while in a large institution, they may specialize in a particular function such as medical coding. There has been an increase in jobs in places such as insurance and billing companies, physician group practices, health maintenance organizations and mental health and rehabilitation facilities. Other places of employment, depending on education, skills and interest, include accounting firms, software vendors, research facilities and information system departments.

The health information technology program at Stark State College is a four-semester course of study leading to an associate of applied science (A.A.S.) degree. A new group of students begins each year in the fall semester. The maximum number of students accepted is 24.

Graduates of the health information technology program will be eligible to take the national accreditation examination administered by the American Health Information Management Association. Individuals who pass the examination are entitled to use the designation of registered health information technician (RHIT).

Prospective students in the health information technology program must meet specific criteria as outlined in program preapplication requirements. Fulfilling the criteria does not guarantee admission to the program. You must apply and be accepted into the program to take HIT courses.

Graduates of the program may pursue a bachelor's degree in health information management (HIM) via distance learning at the University of Toledo or pursue other bachelor degree options.

The health information technology program is accredited by the Commission on the Accreditation for Health Informatics and Information Management Education (CAHIIM).

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be accepted into a health program at Stark State College; may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

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.

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Health Information Technology

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
HIT121	Introduction to Health Information Technology	4
BIO125	Medical Terminology	3
HIT123	Medicolegal Aspects	2
BIO123	Principles of Human Structure and Function	5
CAP120	Business Computer Applications	4
		18
Semester II		
BIO124	Pathophysiology	3
HIT122	Ancillary Health Records and Registries	3
BIO222	Pharmacology	3
HIT124	Introduction to Coding	4
ENG124	College Composition †	3
		16
Semester III		
HIT221	Advanced Coding	3
HIT222	Statistics/Data Retrieval	3
HIT224	Health Care Quality Improvement	2
HIT226	HIT Professional Practice I/Seminar I	4
ENG122	Communication Theory***	3
	Social Sciences Elective*	3
		18
Semester IV		
ENG222	Medical Technology Report Writing**	3
HIT223	HIT Management**	3
HIT228	Coding for Reimbursement	4
HIT229	Information Systems in Health Care	3
HIT227	HIT Professional Practice II/Seminar II	4
		17

69 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from psychology or sociology offerings.

** ENG 222 must be taken concurrently with HIT223.

*** May substitute SPH121.



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Massage Therapy Program

Massage therapy is a study of the interrelationship of body, mind and spirit. Massage therapists apply specific techniques to the muscular structures and soft tissues of the human body effectively relieving pain and restoring function. Professional massage therapists are an integral part of a health care team and recognized for their important role in helping to treat illness and chronic ailments.

Stark State College offers two approaches to training as a massage therapist. The certificate program enables students to complete the 42 credit hour coursework in four semesters. Upon successful completion, students are issued a certificate which allows them to sit for licensure with the State of Ohio Medical Board. The associate of technical studies degree in massage therapy can be completed in five semesters and includes business and other courses which prepare students for success in their profession.

Massage Therapists in Ohio are required to be licensed. The State of Ohio Medical Board approves the curriculum at Stark State College and is the licensing agent for massage therapy. Therapists are licensed as

limited medical practitioners and are able to work in private practice as well as hospitals, clinics, spas, doctor and chiropractor offices and in many other venues.

The massage therapy program at Stark State College challenges the student in proficiency of hands-on skills as well as extensive knowledge of anatomy, physiology and massage therapy theory. Self-care for the massage practitioner, client wellness education and community involvement through volunteerism is also an integral part of the curriculum.

Massage therapists enjoy knowing that they make a difference in the lives of others, enjoy a high level of autonomy in their employment and ample time with clients to convey a sense of caring which facilitates a healing environment.

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be accepted into a health program at Stark State College; may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

Massage Therapy Certificate Program

SUGGESTED COURSE SEQUENCE FOR CLASSES STARTING PRIOR TO DECEMBER 31, 2005

Program Beginning in Fall

Fall – Semester I		Credit Hours
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
ENG124	College Composition †	3
MAS123	Massage Therapy Anatomy and Physiology I - <i>Web Delivered</i>	1
		<hr/> 14
Spring – Semester II		
MAS122	Massage Therapy II	2
MAS224	Massage Therapy III	4
BIO122	Anatomy and Physiology II	4
MAS124	Massage Therapy Anatomy and Physiology II - <i>Web Delivered</i>	1
		<hr/> 2
MAS227	Massage Therapy Procedures	3
PHL122	Ethics	3
		<hr/> 16
Summer – Semester III		
MAS225	Massage Therapy IV	2
Electives*		4
		<hr/> 6
Fall – Semester IV		
MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
		<hr/> 6

Program Beginning in Spring

Spring – Semester I		Credit Hours
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
PHL122	Ethics	3
MAS123	Massage Therapy Anatomy and Physiology I - <i>Web Delivered</i>	1
		<hr/> 14
Summer – Semester II		
MAS122	Massage Therapy II	2
Electives *		4
		<hr/> 6
Fall – Semester III		
MAS224	Massage Therapy III	4
MAS225	Massage Therapy IV	2
BIO122	Anatomy and Physiology II	4
ENG124	College Composition †	3
MAS124	Massage Therapy Anatomy and Physiology II - <i>Web Delivered</i>	1
		<hr/> 2
MAS227	Massage Therapy Procedures	2
		<hr/> 16
Spring – Semester IV		
MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
		<hr/> 6

42 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from BUS121, BUS123 or CAP120.

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Massage Therapy Program

Massage Therapy Certificate Program

SUGGESTED COURSE SEQUENCE FOR CLASSES STARTING AFTER DECEMBER 31, 2005

Program Beginning in Spring

		Credit Hours
Spring – Semester I		
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
MAS123	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	1
PSY222	Psychological Aspects of Therapy	3
		<hr/> 14
Summer – Semester II		
MAS122	Massage Therapy II	2
		<hr/> 2
Fall – Semester III		
MAS224	Massage Therapy III	4
MAS225	Massage Therapy IV	2
BIO122	Anatomy and Physiology II	4
MAS124	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	2
MAS228	Professional Practice and Evaluation	1
		<hr/> 13
Spring – Semester IV		
MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
MAS227	Massage Therapy Procedures	2
MAS229	Clinic Operations	2
BIO124	Pathophysiology	3
		<hr/> 13

Program Beginning in Fall

		Credit Hours
Fall – Semester I		
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
MAS123	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	1
PSY222	Psychological Aspects of Therapy	3
		<hr/> 14
Spring – Semester II		
MAS122	Massage Therapy II	2
MAS224	Massage Therapy III	4
BIO122	Anatomy and Physiology II	4
MAS124	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	2
		<hr/> 12
Summer – Semester III		
MAS225	Massage Therapy IV	2
MAS228	Professional Practice and Evaluation	1
BIO124	Pathophysiology	3
		<hr/> 6
Fall – Semester IV		
MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
MAS227	Massage Therapy Procedures	2
MAS229	Clinic Operations	2
		<hr/> 10

42 TOTAL CREDIT HOURS

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Massage Therapy Program

Associate of Technical Studies Massage Therapy Major

SUGGESTED COURSE SEQUENCE FOR CLASSES STARTING *PRIOR* TO DECEMBER 31, 2005

Program Beginning in Fall

		Credit Hours
Fall – Semester I		
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
MAS123	Massage Therapy Anatomy and Physiology I - <i>Web Delivered</i>	1
BIO125	Medical Terminology	3
BUS121	Business Administration	4
		<hr/> 18

Spring – Semester II

MAS122	Massage Therapy II	2
MAS224	Massage Therapy III	4
BIO122	Anatomy and Physiology II	4
MAS124	Massage Therapy Anatomy and Physiology II - <i>Web Delivered</i>	1
MAS227	Massage Therapy Procedures	2
ENG124	College Composition †	3
PHL122	Ethics	3
		<hr/> 19

Summer – Semester III

MAS225	Massage Therapy IV	2
BUS123	Business Math	4
		<hr/> 6

Fall – Semester IV

MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
ACC121	Principles of Accounting I	4
CAP120	Business Computer Applications	4
		<hr/> 14

Spring – Semester V

PSY121	General Psychology	3
SOC121	Sociology	3
MGT121	Principles of Management	3
MKT121	Principles of Marketing	3
		<hr/> 12

Program Beginning in Spring

		Credit Hours
Spring – Semester I		
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
BUS121	Business Administration	4
BUS123	Business Math	4
MAS123	Massage Therapy Anatomy and Physiology I - <i>Web Delivered</i>	1
		<hr/> 19

Summer – Semester II

MAS122	Massage Therapy II	2
CAP120	Business Computer Applications	4
		<hr/> 6

Fall – Semester III

MAS224	Massage Therapy III	4
MAS225	Massage Therapy IV	2
BIO122	Anatomy and Physiology II	4
ENG124	College Composition †	3
MAS124	Massage Therapy Anatomy and Physiology II - <i>Web Delivered</i>	1
MAS227	Massage Therapy Procedures	2
BIO125	Medical Terminology	3
		<hr/> 19

Spring – Semester IV

MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
MKT121	Principles of Marketing	3
PHL122	Ethics	3
ACC121	Principles of Accounting	4
MGT121	Principles of Management	3
		<hr/> 19

Summer – Semester V

PSY121	General Psychology	3
SOC121	Sociology	3
		<hr/> 6

69 TOTAL CREDIT HOURS

† Based on SSCT placement scores.



A COLLEGE TECH PREP PARTICIPANT

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Massage Therapy Program

Associate of Technical Studies Massage Therapy Major

SUGGESTED COURSE SEQUENCE FOR CLASSES STARTING AFTER DECEMBER 31, 2005

Program Beginning in Spring

		Credit Hours
Spring – Semester I		
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
MAS123	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	1
BUS121	Business Administration	4
BUS123	Business Math	4
		<hr/> 19

Summer – Semester II

MAS122	Massage Therapy II	2
CAP120	Business Computer Applications	4
ENG124	College Composition †	3
BIO 125	Medical Terminology	3
		<hr/> 12

Fall – Semester III

MAS224	Massage Therapy III	4
MAS225	Massage Therapy IV	2
BIO122	Anatomy and Physiology II	4
MAS124	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	2
PSY222	Psychological Aspects of Therapy	3
MAS227	Massage Therapy Procedures	2
MAS228	Professional Practice & Evaluation	1
		<hr/> 18

Spring – Semester IV

MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
BIO124	Pathophysiology	3
MAS229	Clinic Operations	2
ACC121	Principles of Accounting	4
		<hr/> 15

Summer – Semester V

MKT121	Principles of Marketing	3
MGT121	Principles of Management	3
		<hr/> 6

Program Beginning in Fall

		Credit Hours
Fall – Semester I		
MAS121	Massage Therapy I	6
BIO121	Anatomy and Physiology I	4
MAS123	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	1
BUS121	Business Administration	4
ENG124	College Composition †	3
		<hr/> 18

Spring – Semester II

MAS122	Massage Therapy II	2
MAS224	Massage Therapy III	4
MAS124	Massage Therapy Anatomy and Physiology – <i>Web Delivered</i>	2
PSY222	Psychological Aspects of Therapy	3
BIO122	Anatomy and Physiology II	4
		<hr/> 15

Summer – Semester III

MAS225	Massage Therapy IV	2
MAS228	Professional Practice and Evaluation	1
BIO125	Medical Terminology	3
BIO124	Pathophysiology	3
		<hr/> 9

Fall – Semester IV

MAS226	Massage Therapy V	3
MAS223	Massage Therapy Review	3
BUS123	Business Math	4
MAS227	Massage Therapy Procedures	2
MAS229	Clinic Operations	2
		<hr/> 14

Spring – Semester V

MKT121	Principles of Marketing	3
ACC121	Principles of Accounting	4
CAP120	Business Computer Applications	4
MGT121	Principles of Management	3
		<hr/> 14

70 TOTAL CREDIT HOURS

† Based on SSCT placement scores.



A COLLEGE TECH PREP PARTICIPANT

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Medical Assisting Program

Employment of medical assistants is expected to grow much faster than the average for all occupations through the year 2010 as the health service industry expands, according to the *Occupational Outlook Handbook* published by the U.S. Department of Labor.

The medical assisting program offers a five-semester "day track" program and a "night track" program to accommodate students who work during the day. Students are encouraged to complete general studies courses while waiting to become eligible for admission to the program.

WHAT IS MEDICAL ASSISTING?

Medical assistants are medical office experts. They do not administer skilled, bedside nursing care. These skills are performed by the registered and practical nurse in a hospital or skilled nursing facility.

The medical assistant is a multi-competent professional who works in doctors' offices, outpatient and ambulatory care clinics, and other health-related businesses. The medical assistant frequently functions as the physician's right hand, assisting with the instruction and treatment of patients and performing the administrative tasks needed to keep an office running smoothly. The medical assistant is skilled in human relations techniques and is required to deal effectively with patients and other allied health personnel in the health care delivery system.

Clinical skills include assisting with the physical exam, measuring vital signs, height, weight, visual acuity and hearing levels. The medical assistant gives injections, applies bandages and dressings, and instructs patients in diet and at-home treatments. Medical assistants perform laboratory screening tests and EKGs, and assist with x-rays. Medical assistants clean and sterilize instruments

and assist with minor office surgery and therapeutic treatments ordered by the physician.

Medical assistants must have administrative skills to keep an office running smoothly. Among these skills are: typing, word processing, insurance coding, transcribing from dictation, computer office systems, accounting, office procedures and communication/telephone skills.

Immediately upon graduation, a medical assisting graduate is eligible to take the national certification exam given by the AAMA (American Association of Medical Assistants) to become a certified medical assistant (CMA).

Second-year students are offered electives in advanced phlebotomy and ophthalmology to assist them in becoming eligible to sit for two additional national certification exams: certified phlebotomist (CLPIb) and certified ophthalmic assistant (COA).

The medical assisting program is accredited by the Commission on Accreditation of Allied Health Education Programs (CAAHEP), on recommendation of the Curriculum Review Board of the American Association of Medical Assistants' Endowment (CRB-AAMAE).

Medical assisting ophthalmology technical electives are accredited by The Committee on Accreditation for Ophthalmic Medical Personnel (CoA-OMP) a sponsor committee on Accreditation of the CAAHEP system.

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Important note:

Beginning with the January 2001 Certification Examination, felons are not eligible to sit for the examination unless the Certifying Board (CB) grants a waiver based on one or more of the mitigating circumstances listed in the *Disciplinary Standards*.

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.

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Medical Assisting Program

Day Track

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BIO101	Introduction to Anatomy and Physiology	3
BIO125	Medical Terminology	3
ENG226	Master Student	3
MAT121	Medical Assisting I	4
OAD100	Computer Applications/Windows (8 wks)/Test* †	1
OAD101	Key Data Input (8 wks)/Test*	1
		<hr/> 15
Semester II		
MAT122	Medical Assisting II	4
MAT124	Medical Office Procedures I	3
MTH101	Introduction to Algebra/Test	4
CAP120	Business Computer Applications*	4
ENG124	College Composition †	3
		<hr/> 18
Semester III		
PSY121	General Psychology	3
PSY123	Human Growth and Development	3
SPH121	Effective Speaking	3
		<hr/> 9
Semester IV		
MAT221	Medical Laboratory Procedures	3
MAT222	Insurance for Medical Assisting	4
MAT223	Medical Office Procedures II	4
MAT224	Pharmacology / Administration of Medications	4
	Social Sciences Elective or Technical Elective**	3
		<hr/> 18
Semester V		
MAT123	Medical Assisting III/Seminar	3
MAT225	Emergency Medical Procedures	2
MAT226	Medical Office Management/Law	3
MAT227	Medical Assisting Externship	2
		<hr/> 10

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Based on work or educational experience (see administrative information proficiency exam schedule).

** A minimum of three credit hours of medical assisting technical electives or social science electives is required for graduation and may be taken during semesters four or five. Each of the following courses is a three-credit hour elective: MAT228, MAT229, MAT230, MAT232.

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be accepted into a health program at Stark State College; may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

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A COLLEGE TECH PREP PARTICIPANT

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Medical Assisting Program

Night Track

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BIO101	Introduction to Anatomy and Physiology	3
BIO125	Medical Terminology	3
ENG226	Master Student	3
MAT121	Medical Assisting I	4
OAD100	Computer Applications/Windows (8 wks)/Test* †	1
OAD101	Key Data Input (8 wks)/Test*	1
		15
Semester II		
MAT122	Medical Assisting II	4
MAT124	Medical Office Procedures I	3
MTH101	Introduction to Algebra/Test	4
CAP120	Business Computer Applications*	4
		15
Semester III		
ENG124	College Composition †	3
PSY123	Human Growth and Development	3
SPH121	Effective Speaking	3
		9
Semester IV		
MAT221	Medical Laboratory Procedures	3
MAT222	Insurance for Medical Assisting	4
MAT223	Medical Office Procedures II	4
PSY121	General Psychology	3
	Social Sciences Elective or Technical Elective**	3
		17
Semester V		
MAT123	Medical Assisting III/Seminar	3
MAT225	Emergency Medical Procedures	2
MAT226	Medical Office Management/Law	3
MAT224	Pharmacology/Administration of Medications	4
MAT227	Medical Assisting Externship	2
		14

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Based on work or educational experience (see administrative information proficiency exam schedule).

** A minimum of three credit hour of medical assisting technical electives of social science electives is required for graduation and may be taken during semesters four or five. Each of the following courses is a three-credit hour elective: MAT228, MAT229, MAT230, MAT232.

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be accepted into a health program at Stark State College; may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

Important note:

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A COLLEGE TECH PREP PARTICIPANT

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Medical Coding Specialist Certificate Program

One-Year Certificate Program - Night Track

Continually changing regulations for reimbursement of health care services issued by the government and other third-party payers have created a demand for qualified medical coders. A medical coding specialist is a valuable member of the health information team who is responsible for translating diagnostic and procedural phrases into coded form. The coded information is then utilized for reimbursement purposes, analysis of patient outcomes and research.

Opportunities for employment include all types of health care environments such as hospitals, outpatient facilities, physicians facilities, physician offices, medical/billing companies, insurance companies, etc.

Students will be instructed in ICD9-CM, CPT-4, DRGs, APCs and other third party reimbursement methodologies. A thorough understanding of anatomy and physiology and disease processes are required in order to understand the disease and procedures to be coded. The medical coding specialist must also have a thorough understanding of the content of the medial record and legal and ethical issues.

Students who complete the medical coding specialist certificate program are eligible to sit for coding certifica-

tion examinations. See the American Health Information Management Association Web site www.ahima.org for additional information.

The medical coding specialist certificate program is a night track, 37-credit course of study that will prepare students for entry-level employment as medical coder specialists. A new group of students begins each fall semester. The summer semester courses are very concentrated and the schedule is rigorous. The maximum number of students accepted is 24. Prospective students in the medical coding specialist certificate program must meet criteria as outlined in program preapplication requirements. Fulfilling the criteria does not guarantee admission to the program. You must apply and be accepted into the program to take HIT courses.

The medical coding specialist certificate program has been approved by the Ohio Board of Regents.

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SUGGESTED COURSE SEQUENCE

Semester I		Credit Hours
HIT121	Introduction to Health Information Technology	4
BIO125	Medical Terminology	3
HIT123	Medicolegal Aspects	2
BIO123	Principles of Human Structure and Function	5
		14
Semester II		
BIO124	Pathophysiology	3
CAP120	Business Computer Applications	4
BIO222	Pharmacology	3
HIT124	Introduction to Coding	4
		14
Semester III		
HIT221	Advanced Coding	3
HIT228	Coding for Reimbursement	4
HIT231	Coding Professional Practice Experience/Seminar*	2
		9

37 TOTAL CREDIT HOURS

* Daytime only.

Note: All credits obtained in the medical coding specialist certificate program can be applied to an associate of applied science degree in health information technology.



A COLLEGE TECH PREP PARTICIPANT

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Medical Instrument Sterilization

Medical instrument sterilization technology is responsible for the correct decontamination processing and sterilization of all items in the hospital and/or clinic that require sterilization. The students in this program work in the central service area and are trained in principles, methods and control of the sterilization processes, cleaning, processing, packaging, distributing, storing and inventory control of sterile goods, instruments, trays, and equipment in the hospital/clinical setting.

The medical instrument sterilization technology program prepares students for professional careers as technicians employed by hospitals and medical clinics to sterilize and clean medical instruments used in surgical procedures and treatment of patients.

Graduates will be eligible to sit for the examination required to become a Certified Sterile Processing and Distribution Technician (CSPDT) after successful completion of the certificate program. Students who complete additional coursework and two additional semesters of study earn an associate of technical studies degree with a major in medical instrumentation sterilization technology.

The program is offered through a collaborative effort between Stark State College of Technology and Mercy Medical Center. Three of the four medical instrument sterilization courses are taught at Mercy Medical Center.

Requirements for admission into the program:

- complete the College admissions process
- submit a health program application to Registration Office
- college and high school transcripts provided and evaluated
- minimum GPA 2.0 overall preferred
- successful completion of Math Fundamentals or proficiency

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Medical Instrument Sterilization Certificate Program

SUGGESTED COURSE SEQUENCE

Fall Semester I		Credit Hours
MIS121	Medical Instrument Sterilization I/Seminar	4
BIO101	Introduction to Anatomy and Physiology	3
ENG226	Master Student	3
BIO125	Medical Terminology	3
		13
Spring Semester II		
MIS122	Medical Instrument Sterilization II/Seminar	6
ENG124	College Composition †	3
MIS123	Introduction to Surgical Terminology/Microbiology	3
		12
Summer Semester III		
MIS221	Medical Instrument Sterilization III/Seminar	6
		6

31 TOTAL CREDIT HOURS

† Based on SSCT placement score.

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Medical Instrument Sterilization

Associate of Technical Studies Medical Instrument Sterilization Major

SUGGESTED COURSE SEQUENCE

		Credit Hours
Fall Semester I		
MIS121	Medical Instrument Sterilization I/Seminar	4
BIO101	Introduction to Anatomy and Physiology	3
ENG226	Master Student	3
BIO125	Medical Terminology	3
		<hr/> 13
Spring Semester II		
MIS122	Medical Instrument Sterilization II/Seminar	6
ENG124	College Composition †	3
MIS123	Introduction to Surgical Terminology/Microbiology	3
BIO123	Principles of Human Structure and Function	5
		<hr/> 17
Summer Semester III		
MIS221	Medical Instrument Sterilization III/Seminar	6
		<hr/> 6
Fall Semester IV		
CAP120	Business Computer Application	4
ENG122	Communication Theory	3
PSY121	General Psychology	3
BIO124	Pathophysiology	3
		<hr/> 13
Spring Semester V		
SPH121	Effective Speaking	3
	Elective (Arts, Humanities, Social Studies)*	3
BIO221	Principles of Microbiology	4
SOC121	Sociology	3
		<hr/> 13

62 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* An elective of at least 3 semester credit hours in the areas of arts, humanities or social studies must be completed

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Medical Laboratory Technology

Laboratory tests play an important part in the detection, diagnosis and treatment of many diseases. Medical laboratory technicians perform a wide variety of tests and laboratory procedures that require a high level of skill.

The medical laboratory technician analyzes the blood, tissues and fluids in the human body by using precision instruments such as microscopes and automated analyzers. Technicians assist in performing complicated chemical, microscopic and bacteriological tests including: blood cholesterol level; microscopic examination of the blood to detect the presence of diseases; and cultures of body fluid or tissue samples to determine the presence of bacteria, parasites or other microorganisms. Technicians may also type and crossmatch blood samples. Collection of blood samples by venipuncture and skin puncture is a required skill of medical technicians.

Technicians employed in small laboratories often perform a variety of tests, while those in large laboratories may specialize in areas such as microbiology,

parasitology, clinical chemistry, blood banking and hematology. Medical laboratory technicians are valued members of the health team. Graduates of the program are eligible to take the national certification exams given by the ASCP and NCA.

Applicants should review the program essential functions to determine if they meet these requirements, available from the program director.

The medical laboratory technology program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS), which is sponsored by the American Society of Clinical Pathologists and the American Society (ASCLS) of Clinical Laboratory Scientists. NAACLS can be reached at 8410 West Bryn Mawr Avenue, Suite 670, Chicago, IL 60631-3415 • 773-714-8880 • www.naacls.org.

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SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
MLT121	Fundamentals of Laboratory Techniques	3
MLT122	Urinalysis	2
CHM121	General Chemistry	4
BIO123	Principles of Human Structure and Function***	5
MLT123	Hematology I	3
		17
Semester II		
MTH123	Intermediate Algebra*	3
MLT124	Hematology II	4
MLT125	Immunohematology	5
CHM122	Organic and Biological Chemistry	4
ENG124	College Composition †	3
		19
Summer		
BIO221	Principles of Microbiology	4
	Elective****	1
	Elective****	1
		6
Semester III		
MLT221	Immunology /Serology	3
MLT222	Clinical Chemistry	5
MLT223	Clinical Microbiology	7
	Social Sciences Elective**	3
		18
Semester IV		
MLT224	Directed Practice/Seminar	10
		10

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May substitute MTH121.

** May select from sociology and psychology offerings.

*** BIO121, BIO122 may be substituted.

**** Suggest two of the following one-credit courses: Microsoft Word, Excel, PowerPoint or Access, or Health Care Delivery in the U.S., a two-credit hour course or another elective per an advisor.

Note: It is recommended that students take Algebra before taking Chemistry.



A COLLEGE TECH PREP PARTICIPANT

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Medical Transcription Certificate Program

One-Year Certificate Program

Medical transcription is the art and science of producing a technically and grammatically correct typewritten report of the dictated word. Medical transcriptionists are medical language specialists who use headsets and transcribing/computer equipment to listen to recordings by physicians and other healthcare professionals. After reviewing and editing for grammar and clarity, the medical transcriptionist transcribes the dictated reports and returns them in either printed or electronic form to the dictator for review and signature or correction.

A medical transcriptionist's basic responsibility is to transcribe medical dictation into a complete and accurate report. Depending on the employment setting, the transcriptionist may also be responsible for carrying out other office duties.

To understand and accurately transcribe dictated reports, the medical transcriptionist must demonstrate an extensive knowledge of medical terminology, anatomy and physiology, pharmacology, human diseases, surgical procedures, diagnostic studies and laboratory tests. A medical transcriptionist must also be able to translate medical jargon and abbreviations into their expanded forms.

Characteristics needed to become a medical transcriptionist include: excellent English language and proofreading skills, a strong interest in medical language, good hearing acuity and listening ability, good keyboarding/typing skills, ability to sit and work for long hours, a high level of concentration for extended period of time and the ability to work independently.

Medical transcriptionists may be found in a variety of settings including the medical records department in a hospital, radiology/imaging departments, physician offices, outpatient facilities, outpatient surgery centers, government facilities, long term, mental health and social service facilities, medical transcription services and home offices. After gaining work experience, medical transcriptionists may work independently out of their homes or work at home as an employee of a hospital or transcription service.

According to the *Occupational Outlook Handbook*, demand for medical transcriptionists is expected to increase due to rapid growth in the healthcare industry spurred by a growing and aging population. Advancements in voice recognition technology are not projected to reduce the need for medical transcriptionists because these workers will continue to be needed to review and edit drafts of the medical report for accuracy.

Because of the nature of the program and the availability of resources and facilities, admission to the program is limited to a new class of 20 students each fall semester.

The program is a three-semester course of study combining classroom learning and practical experience leading to entry-level employment. At the end of the program, students who have successfully passed all the courses receive a certificate of completion. In addition, the student is earning college credits from an accredited institution, which may be applied to other courses of study in the future.

Prospective students in the medical transcription certificate program must meet criteria as outlined in program preapplication requirements. Fulfilling the criteria does not guarantee admission to the program. You must apply and be accepted into the program to take MTC courses.

The medical transcription certificate program has been approved by the Ohio Board of Regents.

According to various sections of the Ohio Law and Regulations for Certification and Licensure Boards, persons convicted of any felony or a misdemeanor related to alcohol/drugs may not be accepted into a health program at Stark State College; may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical/practicum sites; or may have restrictions placed on their ability to practice. For more information, contact the dean of student services and the applicable licensure/certification board.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BIO125	Medical Terminology	3
BIO123	Principles of Human Structure and Function	5
OAD121	Keyboarding/Formatting*	3
MTC121	Medical Transcription/Terminology I	5
		16
Semester II		
MTC122	Medical Transcription/Terminology II	5
OAD129	Keyboarding/Skillbuilding (8 wks)	1
ENG124	College Composition †	3
BIO124	Pathophysiology	3
		12
Summer		
BIO222	Pharmacology	3
MTC123	Advanced Medical Transcription	3
		6

34 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Recommend taking this course prior to beginning the program.

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Associate Degree in Nursing (ADN) Program

Nursing is a rewarding profession that combines technology with caring to assist people in obtaining and maintaining optimal health.

The associate degree nurse (ADN) practices in a variety of settings: hospitals, long-term and extended-care facilities, clinics and other health care agencies. The ADN graduate functions in three primary roles: provider of client care, manager of client care and member within the nursing discipline.

Using the methodology of the nursing process, the associate degree nurse formulates clinical judgments, collaborates with clients and other health care professionals, and practices within legal, ethical and social obligations.

Stark State College's ADN program consists of four semesters and a summer of academic coursework and hands-on learning experiences in the classroom, learning laboratory and clinical settings. The program prepares the individual to qualify for the licensing examination for registered nurses.

Applicants must fulfill the following requirements to be eligible for admission to the ADN program:

- Be a high school graduate with a GPA of 3.0 or better on a 4.0 scale, or have a college GPA of 3.0 or better in 12 or more hours of coursework, or have a GED certificate.
- Have completed one year of high school algebra, chemistry and biology with a grade of "C" or better within the past five years, or show equivalency.
- Complete Stark State's pre-admission test and take any courses recommended as a result of that test.
- Score 60% or higher on the National League for Nursing pre-admission examination for registered nurses.

A weekend program is currently being offered to students who meet the listed admission requirements as well as having completed the following courses: BIO121: Anatomy I, BIO122: Anatomy II, CHM121: General Chemistry, and CHM122: Organic and Biological Chemistry with a grade of "C" or better by June 1 of the admitting year. Meeting requirements for admission for the weekend program does not guarantee admission to the weekend nursing program.

Candidates who wish to sit for the NCLEX-RN (Registered Nurse Licensing Examination) will be required to submit their fingerprints to the Bureau of Criminal Identification and Investigation (BCII) and the Federal Bureau of Investigations (FBI).

For more details, contact the Ohio Board of Nursing Web site at www5.state.oh.us/nur

A licensed practical nurse (LPN) admitted to Stark State College's ADN program with advanced standing admission (ASA) obtains 77 semester hours of credit at graduation.

LPNs must earn 22 hours of credit in specified courses before admission to the program. Upon satisfactory completion of the ACE test with a decision score of 70 in both sections of the test, and satisfactory completion of *NUR 201: Transition for the LPN* (a five-credit hour course), LPNs will receive 20 hours of credit for first-level nursing courses. In addition, LPNs must complete the one-calendar-year curriculum plan on page 115.

According to Section 4723.28 of the *Ohio Revised Code*, nursing students are responsible for informing the department head/director of nursing, early in the program, of any misdemeanor related to alcohol or drugs, or felony convictions so that students may be informed of the steps the Ohio Board of Nursing will take before considering their application to sit for the licensing examination.

According to *Ohio HB327*: anyone previously convicted of, pleaded guilty to, or had a judicial finding of guilt for an egregious felony will be precluded from initial licensure. Egregious felonies are: aggravated murder, murder, voluntary manslaughter, felonious assault, kidnapping, rape, sexual battery, gross sexual imposition, aggravated arson, aggravated robbery and aggravated burglary.

Stark State College's associate degree of nursing (ADN) program has full approval by the Ohio Board of Nursing and is accredited by the National League for Nursing Accrediting Commission (NLNAC). NLNAC can be reached at: 61 Broadway, 33rd Floor, New York, NY 10006 • 1-800-669-1656.

The Stark State College ADN program has the following written articulation agreements in place:

- Malone College, Department of Nursing, Bachelor of Science in Nursing (BSN) degree-completion track for RNs (Canton, OH)
- Wayne College Joint Vocational High School nurse program and the Wayne Adult School of Practical Nursing (Smithville, OH)
- Portage Lakes Career Center, W. Howard Nicol School of Practical Nursing (Green, OH)
- Practical Nurse Program of Canton City Schools (Canton, OH)
- Walsh University, B.S.N. Degree for the Registered Nurse (BSN-RN) Program (Canton, OH)

Transfer guidelines are available from the Admissions Department.

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Associate Degree in Nursing (ADN) Program

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
NUR121	Fundamental Concepts of Nursing	6
BIO121	Anatomy and Physiology I	4
PSY121	General Psychology	3
CHM121	General Chemistry	4
		<hr/> 17
Semester II		
NUR221	Nursing Care of Persons with Alterations in Health I	6
BIO122	Anatomy and Physiology II	4
CHM122	Organic and Biological Chemistry	4
ENG124	College Composition †	3
		<hr/> 17
Summer		
NUR122	Nursing Care of Child-bearing Family	4
NUR123	Nursing Care of Children	4
PSY123	Human Growth and Development	3
		<hr/> 11
Semester III		
NUR222	Nursing Care of Persons with Alterations in Health II	8
BIO221	Principles of Microbiology	4
SOC121	Sociology	3
		<hr/> 15
Semester IV		
NUR223	Nursing Care of Persons with Alterations in Health III	8
NUR224	Nursing Seminar	1
ENG224	Composition and Literature	3
		<hr/> 12

72 TOTAL CREDIT HOURS

LPN to RN Sequence

SUGGESTED COURSE SEQUENCE

		Credit Hours
Summer		
NUR201	Transition for the LPN	5
PSY123	Human Growth and Development	3
		<hr/> 8
Fall		
NUR222	Nursing Care of Persons with Alterations in Health II	8
BIO221	Principles of Microbiology	4
SOC121	Sociology	3
		<hr/> 15
Spring		
NUR223	Nursing Care of Persons with Alterations in Health III	8
NUR224	Nursing Seminar	1
ENG224	Composition and Literature	3
		<hr/> 12

35 TOTAL CREDIT HOURS

† Based on SSCT placement score.



A COLLEGE TECH PREP PARTICIPANT

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Occupational Therapy Assistant (OTA) Technology

The profession of occupational therapy is concerned with providing services to individuals whose lives have been disrupted by accident or illness, birth defects, developmental problems, social or psychological problems. Occupational therapy personnel work in hospitals, schools, workshops, mental health centers, clinics and home-health agencies.

Occupational therapy assistants work under the supervision of the registered occupational therapist, helping patients achieve maximum independence in the day-to-day living activities of self-care, work, leisure and play, education and social participation.

Assistants help therapists in evaluating patients to determine patient and family needs. Once the therapist sets the treatment goals the assistants may be responsible for implementing therapy by using selected activities. Treatment may involve group activities such as role playing, games or work and discussion groups, or individual programs to help strengthen impaired muscles, to improve coordination or to compensate for perceptual problems. Assistants may also instruct and train patients in the use of specially designed devices to allow people with physical disabilities to dress or feed themselves, take care of their homes or return to work.

Coursework focuses on human development and the tasks and skills used in everyday life. Prospective students in the occupational therapy assistant technology program must have one year of high school biology or one semester of college biology and one year of high school algebra.

The occupational therapy assistant program is accredited by the Accreditation Council for Occupational Therapy Education (ACOTE) of the American Occupational Therapy Association (AOTA), 4720 Montgomery Lane, P.O. Box 31220 Bethesda, MD 20824-1220 • 301-652-2682. Graduates of the program will be eligible to sit for the *national certification examination* for the occupational therapy assistant administered by the National Board for Certification in Occupational Therapy (NBCOT). After successful completion of this exam, the individual will be a certified occupational therapy assistant (COTA). In addition, most states require licensure in order to practice; however, states licenses are usually based on the results of the *NBCOT Certification Examination*.

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Occupational Therapy Assistant (OTA) Technology

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
BIO125	Medical Terminology	3
PSY121	General Psychology	3
ENG124	College Composition †	3
OTA121	Foundations of Occupational Therapy	3
OTA122	Therapeutic Media	3
		<hr/> 15
Semester II		
PSY221	Abnormal Psychology	3
ENG122	Communication Theory	3
BIO123	Principles of Human Structure and Function	5
OTA123	Psychosocial Aspects in Occupational Therapy	4
OTA124	Psychosocial Clinical Experience	3
		<hr/> 18
Semester III		
OTA223	Life Span Development	5
OTA221	Developmental Aspects in Occupational Therapy	4
OTA222	Developmental Clinical Experience	3
PTA226	Functional Anatomy	4
		<hr/> 16
Semester IV		
BIO124	Pathiophysiology	3
SOC121	Sociology	3
OTA224	OT Physical Dysfunction	4
OTA225	Physical Dysfunction Clinical Experience	3
		<hr/> 13
Semester V		
OTA226	OTA Seminar	2
OTA227	Clinical Application I (8 wks)	3
OTA228	Clinical Application II (8 wks)	3
		<hr/> 8

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

All OTA students must complete Level II fieldwork within six months following completion of academic courses.

According to various sections of the Ohio Revised Code especially sections 4755.01 to 4755.12 and according to the rules and regulations of the occupational therapy (OT) section of the Ohio Occupational Therapy, Physical Therapy and Athletic Trainers Board (OT/PT/AT Board) and of the National Board for Certification of Occupational Therapy (NBCOT), persons convicted of any misdemeanor related to alcohol/drugs or a felony may be denied certification or licensure or may be refused placement by the Fieldwork Experience Sites or may have restrictions placed on their ability to practice. This may effect your admission into the OTA program. Such persons are advised to contact the director of OTAT, the OT section of the Ohio OT/PT/AT Board, and/or NBCOT.



A COLLEGE TECH PREP PARTICIPANT

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Physical Therapist Assistant (PTA) Technology

Physical therapist assistants work under the supervision of physical therapists to rehabilitate ill or injured persons to the highest possible level of independent living. They also help to educate patients and other people about measures they can take to prevent disability from occurring or becoming worse.

Physical therapist assistants help therapists in testing patients to determine the extent of their capabilities. After the therapist sets goals and plans the treatment program for the patient, assistants may be assigned to perform selected treatments, using a variety of specialized equipment, various forms of heat, cold, light and electricity. Assistants may help patients perform therapeutic exercises to strengthen, stretch or relax muscles, promote circulation or enhance coordination.

Physical therapist assistants help patients learn correct walking procedures and perform everyday activities such as dressing, getting in and out of bed and chairs, using artificial limbs, braces and splints and standing properly. They also teach patients and family members about exercises or other activities to continue at home.

Assistants are responsible for reporting patient reactions to treatment and making suggestions for modifying treatment to their supervising therapist.

They also help with documentation of patient progress, perform certain clerical duties and help give on-the-job training to non-licensed personnel working in the physical therapy department.

Upon successful completion of all aspects of the physical therapist assistant technology, graduates are eligible to take the state licensing examination. Licensure is mandatory prior to being able to practice as a physical therapist assistant in Ohio.

Prospective students in the physical therapist assistant technology (PTAT) must meet specific eligibility criteria as outlined in program prerequisite requirements.

The physical therapist assistant technology program is accredited by the Commission on Accreditation in Physical Therapy Education of the American Physical Therapy Association.

Any persons convicted of a felony or a crime involving moral turpitude (regardless of the state or country in which the conviction occurred) or abuse alcohol or a controlled substance to the extent that it impairs professional competency may be denied acceptance into the physical therapist assistant technology program at Stark State College of Technology, may be refused acceptance of placement by clinical sites or may be refused licensure as a physical therapist assistant. Such persons are advised to contact the program coordinator of the physical therapist assistant technology program and the executive director of the Ohio Occupational Therapy, Physical Therapy, and Athletic Trainers Board.

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.

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Physical Therapist Assistant (PTA) Technology

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
PHY101	Principles of Physics	4
PTA121	Fundamentals of Physical Therapy	4
PTA122	Musculoskeletal Anatomy	4
BIO123	Principles of Human Structure and Function **	5
		<hr/> 17
Semester II		
BIO125	Medical Terminology	3
ENG122	Communication Theory *	3
PTA123	Kinesiology	4
PTA221	PTA Procedures I	5
BIO124	Pathophysiology	3
		<hr/> 18
Semester III (Summer)		
PTA124	Measurement Procedures for the PTA	2
PSY121	General Psychology	3
ENG124	College Composition †	3
PTA125	Professional Clinical Practice for the PTA	1
		<hr/> 9
Semester IV		
PSY222	Psychological Aspects of Therapy	3
PTA222	PTA Procedures II	5
OTA223	Life Span Development	5
PTA229	Directed Practice I	3
PTA228	Seminar I	2
		<hr/> 18
Semester V		
PTA223	PTA Procedures III	2
PTA231	Directed Practice II	2
PTA230	Seminar II	1
PTA227	Directed Practice III	3
		<hr/> 8

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* SPH121 may be substituted for this class.

** BIO121 and BIO122 may be substituted for this class.

This is a suggested course sequence. Only those marked PTA must be taken in this order. Course prerequisites stated in the catalog must be met.



A COLLEGE TECH PREP PARTICIPANT

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Respiratory Care Technology

Respiratory care is a healthcare specialty involved in the assessment, treatment, management, control, diagnostic evaluation and care of patients with deficiencies and abnormalities of the cardiopulmonary system.

Working under the direction of a physician, respiratory care practitioners perform specific therapeutic procedures in the newborn nursery, surgical and medical clinical areas, emergency rooms, outpatient departments and intensive-care units of hospitals. These procedures include the administration of medical gases, administration of breathing treatments and other bronchial-hygiene techniques. Respiratory therapy provides treatment for patients with acute illnesses who may require use of life-support equipment as well as the testing of patients using various diagnostic techniques.

Prospective students in the respiratory care technology program must meet specific eligibility criteria as outlined in the program's prerequisite requirements.

The respiratory care technology program provides opportunities for students to acquire the necessary skills by combining classroom learning with hospital

experience. Because of the nature of the program and the availability of resources and facilities, admission to the program is limited.

Graduates of the respiratory care technology program will be eligible to apply for the examinations for becoming a certified respiratory therapist (CRT), registered respiratory therapist (RRT) and licensed respiratory care practitioner. Licensure is required to practice as a respiratory care practitioner.

The respiratory care technology program is accredited by the Committee on Accreditation for Respiratory Care (CoARC).

According to various sections of the Ohio Revised Code with respect to Chapter 4761 Respiratory Care Regulations any persons with a plea of guilty to a judicial finding of guilt of, or a judicial finding of eligibility for intervention in lieu of conviction for an offense involving moral turpitude or of a felony or using dangerous drugs, as defined in section 4729.01 of the Revised Code, or use of alcohol to the extent that it impairs practice at an acceptable level of competence may not be accepted into the respiratory care technology (RCT) program at Stark State College; may not be able to take the licensure or certification examinations; may be refused acceptance of placement by the clinical sites; or may not be able to get license to practice respiratory care and be restricted in their ability to practice respiratory care. Such persons are advised to contact the director of the RCT program, and the executive director of the Ohio Respiratory Care Board.

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.

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Respiratory Care Technology

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
RCT121	Introduction to Respiratory Care Procedures	3
RCT122	Medical Gas Administration	3
MTH123	Intermediate Algebra	3
BIO123	Principles of Human Structure and Function	5
ENG124	College Composition †	3
		<hr/> 17
Semester II		
CHM121	General Chemistry	4
RCT123	Airway Management Procedure	3
RCT124	Pharmacology for Respiratory Therapy	2
RCT125	Clinical Practice Basic Procedures/Seminar	3
	Social Sciences Elective*	3
		<hr/> 15
Semester III (Summer)		
RCT126	Introduction to Critical Care	3
RCT127	Cardiopulmonary Anatomy and Physiology	3
RCT128	Clinical Practice Airway Management/Seminar	2
		<hr/> 8
Semester IV		
ENG122	Communication Theory	3
BIO221	Principles of Microbiology	4
RCT221	Advanced Respiratory Care Procedures	3
RCT222	Respiratory Diseases	3
RCT224	Clinical Practice Critical Care/Seminar	3
		<hr/> 16
Semester V		
CAP120	Business Computer Applications	4
RCT223	Patient Assessment and Monitoring	3
RCT225	Clinical Practice Specialty Rotations/Seminar	5
	Psychology Elective**	3
		<hr/> 15

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* May select from sociology offerings only.

** May select from psychology offerings only.



A COLLEGE TECH PREP PARTICIPANT

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Information Technologies

Students majoring in the information technologies may pursue associate of applied science degrees in computer science, computer networking and telecommunications, computer network administration and security and interactive media technology as well as associate of applied business degrees in the areas of computer technology, e-commerce and computer programming and database technology.

The associate of applied science degree has a greater focus on math and science where the associate of applied business degree is less math intensive and incorporates general business and accounting courses into the curriculum. All information technology programs cover the latest technologies and skills and were designed with the assistance of advisory committees composed of representatives of local employers.

Nearly every facet of our lives today is affected by computers. Positions for personnel with computer skills are growing as organizations of all sizes need help to manage overwhelming amounts of information. Stark State College offers practical education to prepare graduates to fill this need.

The programs offered by the information technology division are designed to prepare students for positions in the growing information technology field, but also prepares them to make use of the power of computers in any field.

Graduates have many employment opportunities, including:

- Analyst
- Application Developer
- Computer Operator
- Database Administrator
- Education Specialist
- Network Administrator
- Programmer
- System Administrator
- Database Designer
- Project Manager
- Consultant
- Technical Support
- Training Specialist
- Video Game Developer
- Network Engineer
- Web Developer
- Help Desk Analyst
- Security Specialist
- Technology Coordinator
- Audio/Video Technician
- Informatics Technician
- Graphic Artist

The division's curriculum is continuously updated to keep pace with the advances in the computer field and to provide timely education in a wide range of computer-related topics. In addition, students get hands-on experience in the classroom and in open labs with industry-approved computer hardware and software.

Information technology professors have practical experience in the field. Their education and industry experience allow them to offer real-life perspectives on the complex world of computer technology. Stark State's information technology programs have been successful in providing students with the practical background and skills needed for employment in the computer field. The information technology division is helping to produce computer professionals with the skills employers want and need.

Bachelor's degree: In most of the associate degree programs, all or nearly all courses may be applied toward a bachelor's degree in technology. Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer and students are urged to discuss transferability of credits with the college or university to which they plan to transfer.

Bachelor of Science in Computer Science and Engineering Technology from the University of Toledo

The University of Toledo and Stark State College of Technology have formed a partnership to offer a bachelor of science degree completion program in computer science and engineering technology. All University of Toledo courses will be offered on the campus of Stark State College.

Participation in the program is for students who have completed either Stark State's computer science and engineering technology degree or the computer networking and telecommunications engineering technology degree.

Bachelor of Science from Franklin University

Franklin University and Stark State College of Technology have formed a partnership to offer a bachelor of science degree completion program in accounting, applied management, business administration, computer science, digital communication, health care management, information technology, management information systems and public safety. All Franklin University courses are offered online and can be taken on the campus of Stark State College.

Bachelor of Arts in Mass-Media Communications from the University of Akron

The University of Akron and Stark State College have formed a partnership to offer a bachelor of arts degree completion program in communications.

Participation in the program is mainly for students who have completed Stark State's interactive media technology degree, but is open to all information technology students.

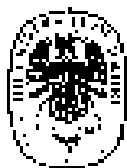
Bachelor of Science in Information Technology from Youngstown State University

Youngstown State University and Stark State College of Technology have formed a partnership to offer a bachelor of science degree completion program in information technology or computer information systems. Participation in the program is open to all students who have completed Stark State's information technology associate degree programs.

Students interested in the four-year programs at the University of Toledo, Franklin University, University of Akron University or Youngstown State University, should talk with their Stark State advisor for more details and application information.

In addition to these programs, the information technology division offers a number of career enhancement certificates designed to enhance specific sets of skills.

For more information, please call Stark State's Office of Admissions/Student Services at 330-966-5450.



Computer Network Administration and Security Technology

This program provides students with information on computer network administration, from basic PC hardware and software to the latest network operating systems. Students gain an understanding of Cisco, Microsoft and Unix-based operating systems and how they are used in today's marketplace. This is an ever-growing and rapidly changing field that requires graduates to work across many platforms and this option provides the appropriate training.

Network security skills are highly valued in today's market. According to a November 2003 report by Foote Partners, the average security professional's total cash compensation increased between 16 percent and 32 percent in the last three years. Occupations such as security officer or privacy officer, which didn't exist several years ago, are growing rapidly.

Students interested in pursuing a 2+2 or 2+3 bachelor of science degree should consult their academic advisor.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester 1		
ECA122	Computer Applications for Technical Professionals	3
EET131	PC Upgrading and Maintenance	3
EET141	Introduction to Computer Networking	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
		16
Semester 2		
ECA127	Programming Logic and Problem Solving	3
ECA131	MS Windows XP and 2003 Server	3
ECA244	MS Windows Server 2003 and Network Infrastructure	3
ECA249	CCNA Phase I and II	4
EET257	UNIX/LINUX Operating Environment	3
MTH122	College Algebra and Trigonometry II	3
		19
Semester 3		
EET242	Microsoft SQL Server Administration	3
EET251	UNIX/LINUX Network Administration	3
PHY121	Physics I	4
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Technical Elective*	3/4
	Arts/Humanities/Social Sciences Elective**	3
		19/20
Semester 4		
ECA245	Designing Security for a Windows 2003 Network	3
ECA246	Administering and Implementing Directory Services and Exchange Server	3
EET258	Data Encryption and Firewall Technology	3
EET259	Web Server Administration	3
ENG221	Technical Report Writing	3
	Arts/Humanities/Social Sciences Elective**	3
		18

72/73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Select from CAP138, ECA250, EET250 or EET261.

** Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

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Computer Network Administration and Security Technology

CISCO Network Administration Option

Cisco Systems, Inc. is a leader in networking technologies for small businesses, corporations, and the Internet. Network technicians and administrators must have an understanding of their products and services in order to be a member of the information technology community.

Stark State College has been approved as a Cisco Networking Academy which allows students to access networking tools, software and other learning materials directly from Cisco. This program was developed to train network technicians to complete the Cisco Certified Network Associate (CCNA) examination, which has become a standard of excellence recognized worldwide.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester 1		
ECA122	Computer Applications for Technical Professionals	3
EET131	PC Upgrading and Maintenance	3
EET141	Introduction to Computer Networking	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
		16
Semester 2		
ECA127	Programming Logic and Problem Solving	3
EET120	DC Circuits	4
EET257	UNIX/LINUX Operating Environment	3
MTH122	College Algebra and Trigonometry II	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Arts/Humanities/Social Sciences Elective**	3
		19
Semester 3		
ECA254	UNIX/LINUX Shell Scripting	3
ECA131	MS Windows XP and 2003 Server	3
ECA244	MS Windows Server 2003 Network Infrastructure	3
ECA249	CCNA Phase I and II	4
PHY121	Physics I	4
		17
Semester 4		
ECA132	Help Desk Concepts	3
ECA250	CCNA Phase III and IV	4
ECA246	Administering and Implementing Directory Services and Exchange Server	3
EET258	Data Encryption and Firewall Technology	3
ENG221	Technical Report Writing	3
	Technical Elective*	3
		19

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Select from CAP138, EET250, EET251 or EET261.

** Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

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Computer Network Administration and Security Technology

Client-Server Support Specialist Option

As a client-server support specialist, students will design, build and install computer networks; maintain, upgrade and troubleshoot computer systems; and provide technical and help desk support. Client-server support specialists assess the computer needs and problems of businesses and help business owners and managers choose the correct technological solutions. Practical, hands-on training will feature technology that is currently being used in the workplace.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
EET131	PC Upgrading and Maintenance	3
EET141	Introduction to Computer Networking	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
	Arts/Humanities/Social Sciences Elective*	3
		19
Semester II		
CAP125	Advanced Microsoft Applications	3
ECA 127	Programming Logic and Problem Solving	3
EET257	UNIX/LINUX Operating Environment	3
MTH122	College Algebra and Trigonometry II	3
SPH121/SPH122	Effective Speaking or Inter-Group Communications	3
	Arts/Humanities/Social Sciences Elective*	3
		18
Semester III		
CAP223	Microsoft Access Database	3
ECA131	Microsoft Windows XP and 2003 Server	3
ECA244	Microsoft Windows Server 2003 Network Infrastructure	3
ECA249	CCNA Phase I and II	4
PHY121	Physics I	4
		17
Semester IV		
CAP134	Spreadsheet Analysis	3
ECA132	Help Desk Concepts	3
ECA248	Citrix Metaframe	3
EET242	Microsoft SQL Server Administration	3
ENG221	Technical Report Writing	3
	Elective**	3
		18

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

** Select from CAP138, ECA246, EET250 and EET261.

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Computer Network Administration and Security Technology

Security and Forensics Option

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA127	Programming Logic and Problem Solving	3
EET131	PC Upgrading and Maintenance	3
EET141	Introduction to Computer Networking	3
ENG124	College Composition †	3
		15
Semester II		
ECA131	MS Windows XP and 2003 Server	3
ECA130	Software Vulnerabilities	3
ECA228	Internet/Intranet Design & Development	3
EET260	Computer Forensics	3
MTH121	College Algebra and Trigonometry I	4
SPH121/122	Effective Speaking or Inter-group Communications	3
		19
Semester III		
ECA249	CCNA Phase I and II	4
PHY121	Physics I	4
ECA222	C++ Programming	3
EET257	UNIX/LINUX Operating Environment	3
ECA244	MS Windows Server 2003 Network Infrastructure	3
	Arts/Humanities/Social Sciences Elective*	3
		20
Semester IV		
ECA129	Cryptography	3
EET251	UNIX/LINUX Network Administration	3
EET258	Data Encryption and Firewall Technology	3
EET259	Web Server Administration	3
ENG221	Technical Report Writing	3
	Arts/Humanities/Social Sciences Elective*	3
		18

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, BUS222, PSC121, ACC130.

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Computer Network Administration and Security Technology

UNIX/LINUX Database Administration Option

This program provides the student with knowledge on computer network administration with special emphasis on the Unix/Linux operating systems and also administration of the Oracle relational database management system. Medium to large scale companies typically have heterogeneous network environments. These companies will typically have many Windows desktop client machines, but store their critical data on one or more large Unix database servers. This course will provide the user with the standard knowledge of Microsoft Windows clients and server, administration of Unix/Linux servers, standard SQL syntax, and administration of the Oracle RDBMS.

SUGGESTED COURSE SEQUENCE

Semester 1		Credit Hours
ECA122	Computer Applications for Technical Professionals	3
EET131	PC Upgrading and Maintenance	3
EET141	Introduction to Computer Networking	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
		<hr/> 16
Semester 2		
CAP139	Introduction to Oracle SQL	3
ECA127	Programming Logic and Problem Solving	3
ECA253	Data Modeling and Database Design	3
EET257	UNIX/LINUX Operating Environment	3
MTH122	College Algebra and Trigonometry II	3
PHY121	Physics I	4
		<hr/> 19
Semester 3		
CAP142	Oracle Architecture and Administration	3
ECA254	UNIX/LINUX Shell Scripting	3
ECA131	MS Windows XP and 2003 Server	3
ECA244	MS Windows 2003 Network Infrastructure	3
EET250	UNIX/LINUX System Administration	3
EET251	UNIX/LINUX Network Administration	3
		<hr/> 18
Semester 4		
EET242	Microsoft SQL Server Administration	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
EET259	Web Server Administration	3
ENG221	Technical Report Writing	3
	Technical Elective*	3
	Arts/Humanities/Social Sciences Elective**	3
		<hr/> 18

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Select from CAP249, CAP250, ECA222, ECA246 or EET261.

** Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

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Computer Networking and Telecommunications Engineering Technology

This program provides students with information on computer networking, electronics, telecommunications and board-level functioning of computers. Students gain an understanding of software systems and software interaction.

The telecommunications information covers voice, video and data communications. It addresses the generation of the electrical signals, their transmission by various means; signal receiving and decoding, and information output.

This program is accepted by the University of Toledo for the first portion of a bachelor of science degree. Students interested in pursuing a 2+2 or 2+3 bachelor of science degree should consult their academic advisor prior to initial enrollment in the courses.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
EET120	DC Circuit Analysis	4
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 18
Semester II		
EET131	PC Upgrading and Maintenance	3
EET141	Introduction to Computer Networking	3
EET122	AC Circuit Analysis	4
EET123	Electronic Devices and Circuits	4
MTH122	College Algebra and Trigonometry II	3
		<hr/> 17
Semester III		
ECA127	Programming Logic and Problem Solving	3
ECA131	MS Windows XP and 2003 Server	3
EET129	Optics	2
EET248	Workstation Interfacing	3
EET262	Pulse and Digital Integrated Circuits	4
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18
Semester IV		
EET244	Electronic Telecommunications	3
EET257	UNIX/LINUX Operating Environment	3
ENG221	Technical Report Writing	3
MTH221	Concepts of Calculus	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.



**COLLEGE
TECH PREP**

A COLLEGE TECH PREP PARTICIPANT

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Computer Programming and Database Technology

This program prepares students for a professional career in software development. This aggressive program is a hands-on approach to teach students to design, create and implement the unique software tools that are in demand today. As a software developer, the student will evaluate the project requirements, participate in design meetings, help determine the best solution to a problem or feature and develop detailed design specifications.

The program provides a strong foundation in database related programming, administration, structure and setup. The students will obtain the skills necessary to provide high end, solution-based technical support for existing database implementations as well as for new database development.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA127	Programming Logic and Problem Solving	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
		16
Semester II		
ECA128	Visual Basic Programming	3
ECA223	Java Programming	3
ECA228	Internet/Intranet Design and Development	3
ENG221/ENG123	Technical Report Writing or Business Communication	3
ECA253	Data Modeling and Database Design	3
MTH222	Statistics	3
		18
Semester III		
BUS121	Business Administration	4
ACC121	Principles of Accounting I	4
ECA229	Microsoft Server Side Scripting	3
CAP223	Microsoft Access Database	3
CAP139	Introduction to Oracle: SQL	3
ECA230	Java Web Database Programming	3
		20
Semester IV		
ECA236	Open Source Server Side Scripting	3
ECA233	Analyzing Software Requirements and Developing Solutions	3
ECA252	Data Mining and Data Warehousing	3
	Technical Elective**	3
CAP224	Visual Basic for Applications	3
	Arts/Humanities/Social Sciences Elective*	3
		18

72 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

** Select from CAP134 or ECA226.

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Computer Science and Engineering Technology

The computer science and engineering technology program has been established to meet the burgeoning demand in Northeastern Ohio for software engineers, programmers/analysts and technical computer software consultants. The computer science and engineering technology program is accompanied by two options, the video gaming option and the University of Toledo transfer option, allowing a total of three curriculum paths.

There is currently a tremendous demand for individuals who know how to use Object Oriented Programming

(OOP) languages to develop software in the following OOP languages: Java, Visual C++ and Visual Basic. Many of the courses in this curriculum prepare individuals for certification exams found in Microsoft's MCSD professional certification sequence. This option allows students to get a degree and prepare for MCSD at the same time. Stark State is an authorized academic training program (AATP) for Microsoft. This means that students can take courses that will prepare them for Microsoft certification tests which can be taken at Stark State College.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA127	Programming Logic and Problem Solving	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 17
Semester II		
ECA223	Java Programming	3
ECA228	Internet/Intranet Design and Development	3
ECA222	C++ Programming	3
MTH122	College Algebra and Trigonometry II	3
	Arts/Humanities/Social Sciences Elective*	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18
Semester III		
ECA128	Visual Basic Programming	3
ECA253	Data Modeling and Database Design	3
ECA230	Java Web Database Programming	3
ENG221	Technical Report Writing	3
MTH221	Concepts of Calculus	3
ECA226/ECA237	Windows Programming with C# or Web Services with C#	3 3
		<hr/> 18
Semester IV		
ECA224	Advanced C++ Programming	3
ECA227	Assembly Language	3
ECA233	Analyzing Software Requirements and Developing Solutions	3
ECA239	Advanced Java Programming	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
EET257	UNIX/LINUX Operating Environment	3
		<hr/> 18

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

Note: Some courses will prepare students for MCSD certification.



A COLLEGE TECH PREP PARTICIPANT

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Computer Science and Engineering Technology

University of Toledo Transfer Option

Upon graduation from Stark State College with a two-year associate degree in computer science and engineering technology, students enrolled in this option have the opportunity to continue their studies for two more years to earn a bachelor's degree in computer science and engineering technology from the University of Toledo. The bachelor's degree is awarded by the

University of Toledo through an educational partnership with Stark State College. Many of the courses taken during the junior and senior years are online courses and are completed over the Internet; the rest are taken from Stark State's course offerings. The entire degree is earned either online or on Stark State's campus!

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA127	Programming Logic and Problem Solving	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/>
		17
Semester II		
ECA223	Java Programming	3
ECA228	Internet/Intranet Design and Development	3
EET120	DC Circuit Analysis	4
EET131	PC Upgrading and Maintenance	3
MTH122	College Algebra and Trigonometry II	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/>
		19
Semester III		
ECA128	Visual Basic Programming	3
ECA222	C++ Programming	3
EET122	AC Circuit Analysis	4
ENG221	Technical Report Writing	3
MTH221	Concepts of Calculus	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
		<hr/>
		19
Semester IV		
ECA227	Assembly Language	3
ECA230	Java Web Database Programming	3
ECA233	Analyzing Software Requirements and Developing Solutions	3
EET257	UNIX/LINUX Operating Environment	3
EET141	Introduction to Computer Networking	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/>
		18

73 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.



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Computer Science and Engineering Technology

Video Game Design Option

Want to become an expert software developer and have some fun in the process?

Stark State's new video game design option is the latest addition to the computer science and engineering technology major. Don't underestimate the depth of presentation! This option is one of the most demanding in terms of math and computer science requirements. A rigorous regimen and advance mathematics, coupled with object-oriented programming, are carefully integrated to assure the highest level of proficiency in gaming and software engineering.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA127	Programming Logic and Problem Solving	3
ENG124	College Composition †	3
MTH121	College Algebra and Trigonometry I	4
PHY121	Physics I	4
		<hr/> 17
Semester II		
ECA222	C++ Programming	3
ECA223	Java Programming	3
IMT122	Graphic Arts Design	3
IMT127	Game Design	3
MTH122	College Algebra and Trigonometry II	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18
Semester III		
ENG221	Technical Report Writing	3
IMT125	3D Graphics Modeling	3
IMT224	2D Game Programming	3
ECA227	Assembly Language	3
MTH221	Concepts of Calculus	3
ECA226	Windows Programming with C#	3
		<hr/> 18
Semester IV		
ECA224	Advanced C++ Programming	3
ECA239	Advanced Java Programming	3
ECA240	Advanced Gaming and Simulation Topics	3
ECA241	3D Game Programming	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

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Computer Technology

The computer technology program provides an application-based technology curriculum. The goal of the program is to graduate technology professionals who have skills in technical training and support, basic Web development, database management, and computer upgrading and networking skills.

The computer technology program is designed to provide students with a comprehensive introduction to the topics of principle importance in business

information systems. It aims to improve overall effectiveness and productivity of individuals and work groups. It addresses the creation, distribution, storage, and use of information in all its formats. Computer technology encompasses office automation, end-user computing, information centers, computer-supported work, performance support, and multimedia-based applications.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA132	Help Desk Concepts	3
ENG124	College Composition †	3
MTH123	Intermediate Algebra	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
		<hr/> 15
Semester II		
CAP125	Advanced Microsoft Applications	3
CAP134	Spreadsheet Analysis	3
ECA228	Internet/Intranet Design and Development	3
IMT122	Graphic Arts Design	3
EET141	Introduction to Computer Networking	3
MTH222	Statistics	3
		<hr/> 18
Semester III		
ACC121	Principles of Accounting I	4
ECA243	Graphics for Illustration	3
CAP223	Microsoft Access Database	3
EET131	PC Upgrading and Maintenance	3
IMT124	Internet Design Tools	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 19
Semester IV		
ECA255	Microsoft Project Tools	3
	Technical Elective**	3
ENG221	Technical Report Writing	3
IMT126	Flash Animation	3
CAP224	Visual Basic for Applications	3
BUS121	Business Administration	4
		<hr/> 19

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

** Select from ECA131, CAP139 or ECA253.

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E-Commerce Technology

Internet/Web Development

E-commerce technology students focus on the exciting and lucrative field of online Internet design and programming. They learn to develop interactive database-driven Web sites using the latest technology. While everyone else is trying to figure out the new information technology buzzwords, Stark State's e-commerce students will be applying them in the classroom.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
ECA127	Programming Logic and Problem Solving	3
ENG124	College Composition †	3
ECA253	Data Modeling and Database Design	3
MTH121	College Algebra and Trigonometry I	4
		<hr/> 16
Semester II		
ECA223	Java Programming	3
ECA228	Internet/Intranet Design and Development	3
MTH222	Statistics	3
IMT122	Graphic Arts Design	3
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
		<hr/> 15
Summer Semester		
BUS121	Business Administration	4
IMT126	Flash Animation	3
ECA229	Microsoft Server Side Scripting	3
		<hr/> 10
Semester III		
ECA225	Client Side Scripting	3
ECA236	Open Source Server Side Scripting	3
IMT235	Flash Web Database Programming	3
MKT121	Principles of Marketing	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 15
Semester IV		
ECA234	CFML Tools and Design	3
ECA230	Java Web Database Programming	3
IMT124	Internet Design Tools	3
ECA247	Advanced XML and Web Services	3
MKT232	Internet Marketing	2
		<hr/> 14

70 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

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Interactive Media Technology

The interactive media technology program is an adventure into the creative side of computing.

An associate degree in interactive media technology will prepare students for careers in communication through media. The emphasis of the program is in 3D animation and computer graphics. The skills the student develops can be used to create games, educational material, presentations and more.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
IMT121	Interactive Media	3
MTH121	College Algebra and Trigonometry I	4
IMT122	Graphic Arts Design	3
ENG124	College Composition †	3
ECA228	Internet/Intranet Design and Development	3
		19
Semester II		
IMT125	3D Graphics Modeling	3
IMT222	Audio in Media	3
PHY121	Physics I	4
ECA127	Programming Logic and Problem Solving	3
IMT126	Flash Animation	3
	Arts/Humanities/Social Sciences Elective*	3
		19
Semester III		
IMT223	Video Production	3
IMT227	3D Graphics Animation	3
IMT235	Flash Web Programming	3
	Arts/Humanities/Social Sciences Elective*	3
		12
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
IMT124	Internet Design Tools	3
ENG227	Writing for Media	3
ECA229	Microsoft Server Side Scripting	3
IMT228	3D Design Practicum	3
ECA241	3D Game Programming	3
		18

68 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.



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Interactive Media Technology

Commercial Music Production and Broadcasting Option

Webcasting, streaming and music production is the focus of this option. Upon completion of this degree the student is able to work in a variety of environments including corporate audio design, trade show design and music composition-based fields.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
IMT121	Interactive Media	3
MTH121	College Algebra and Trigonometry I	4
IMT122	Graphic Arts Design	3
ECA127	Programming Logic and Problem Solving	3
ECA228	Internet/Intranet Design and Development	3
		<hr/> 19
Semester II		
IMT125	3D Graphics Modeling	3
IMT222	Audio in Media	3
PHY121	Physics I	4
ENG124	College Composition †	3
IMT126	Flash Animation	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 19
Semester III		
IMT223	Video Production	3
ECA229	Microsoft Server Side Scripting	3
IMT229	Theory and Composition	3
ECA253	Data Modeling and Database Design	3
EET131	PC Upgrading and Maintenance	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
IMT230	Webcasting	3
ENG227	Writing for Media	3
IMT231	Sequencing and MIDI Samples	3
IMT232	Instrumental Practicum	3
		<hr/> 15

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.



A COLLEGE TECH PREP PARTICIPANT

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Interactive Media Technology

Instructional Design Option

This option is for students wishing to utilize a wide range of tools that aid them in creating multimedia-based applications such as marketing tools, corporate material and other media presentations.

The instructional design and development option is directed toward those individuals who wish to apply technology and related software in a classroom or instructional setting. The outlook for those who under-

stand how to use technology in education is excellent. Schools and other organizations are expanding their use of technology and are employing more professionally-trained workers. Opportunities are also available in the private sector. Typical jobs for graduates in instructional design include: technology coordinator, distance learning specialist, computer-based training developer, online training specialist, staff development specialist and corporate training specialist.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
IMT121	Interactive Media	3
MTH121	College Algebra and Trigonometry I	4
IMT122	Graphic Arts Design	3
ECA127	Programming Logic and Problem Solving	3
ECA228	Internet/Intranet Design and Development	3
		<hr/> 19
Semester II		
IMT125	3D Graphics Modeling	3
IMT222	Audio in Media	3
PHY121	Physics I	4
ENG124	College Composition †	3
IMT126	Flash Animation	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 19
Semester III		
IMT223	Video Production	3
ECA229	Microsoft Server Side Scripting	3
IMT235	Flash Web Programming	3
IMT123	CBT Development with Director	3
ECA243	Graphics for Illustration	3
	Arts/Humanities/Social Sciences Elective*	3
		<hr/> 18
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
IMT236	Designing for Presentations	3
ENG227	Writing for Media	3
IMT124	Internet Design Tools	3
ECA242	Instructional Development with Authorware	3
		<hr/> 15

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.

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Interactive Media Technology

Video Production Option

Camera work, digital editing and special effects are the focus of this degree. A partnership with the communication department at The University of Akron allows students to complete an associate degree at Stark State and transfer all credits directly to the communication degree at The University of Akron. Upon completion of the associate degree, students will be able to plan, shoot and edit and are prepared for employment with multimedia firms, creating educational, commercial or industrial videos.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECA122	Computer Applications for Technical Professionals	3
IMT121	Interactive Media	3
MTH121	College Algebra and Trigonometry I	4
IMT122	Graphic Arts Design	3
ECA127	Programming Logic and Problem Solving	3
ECA228	Internet/Intranet Design and Development	3
		19
Semester II		
IMT125	3D Graphics Modeling	3
IMT222	Audio in Media	3
PHY121	Physics I	4
ENG124	College Composition †	3
IMT126	Flash Animation	3
	Arts/Humanities/Social Sciences Elective*	3
		19
Semester III		
IMT223	Video Production	3
ECA229	Microsoft Server Side Scripting	3
IMT227	3D Graphics Animation	3
IMT123	CBT Development with Director	3
EET131	PC Upgrading and Maintenance	3
	Arts/Humanities/Social Sciences Elective*	3
		18
Semester IV		
SPH121/SPH122	Effective Speaking or Inter-group Communications	3
IMT238	Advanced Video Production	3
ENG227	Writing for Media	3
IMT237	Compositing	3
IMT228	3D Design Practicum	3
		15

71 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Arts/Humanities/Social Sciences Electives: PSY121, PSY122, PSY123, PSY124, PSY221, PHL122, SOC121, SOC122, SOC123, SOC225, BUS122, BUS221, PSC121, ACC130.



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.

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Information Technologies

Career Enhancement Programs*

Stark State College recognizes that not all students will seek an associate degree. Students might need to develop specific sets of skills to qualify for or improve performance in a given career setting. In response to this need, Stark State has developed "career enhancement" programs which document a student's proficiency in a variety of knowledge areas. The following series of courses are offered to non-degree seeking individuals desiring an opportunity to gain or improve marketable skills.

These courses are offered on a continuing basis at our campus location. We welcome inquiries from companies that may wish to investigate the possibility of offering them on-site at company locations.

Students enrolling in an associate degree program may apply these courses toward the degree if it is in the same area of study. Application for the "career enhancement" program should be made to the appropriate department head or academic dean.

Certificates of Competency

Computer Science and Engineering Technology

Java Programming	Java Programming (ECA223)
	Java Web Database Programming (ECA230)
	Advanced Java Programming (ECA239)
	Data Modeling and Database Design (ECA253)
Visual Basic	Visual Basic for Applications (CAP224)
	Visual Basic Programming (ECA128)
	Microsoft Access Database (CAP223)
	Data Modeling and Database Design (ECA253)
C++	C++ Programming (ECA222)
	Advanced C++ Programming (ECA224)
	Data Modeling and Database Design (ECA253)

Interactive Media Technology

Interactive Media	Graphic Arts Design (IMT122)
	3D Graphics Modeling (IMT125)
	Flash Animation (IMT126)
	Audio in Media (IMT222)
	Video Production (IMT223)
	Writing for Media (ENG227)
Instructional Design	Graphic Arts Design (IMT122)
	Flash Animation (IMT126)
	Video Production (IMT223)
	Instructional Development with Authorware (ECA242)
	CBT Development with Director (IMT123)
	Designing for Presentations (IMT236)

Database Administration Technology

Database Administrator Oracle	Introduction to Oracle: SQL (CAP139)
	Oracle PL/SQL Programming Language (CAP141)
	Oracle Architecture and Administration (CAP142)
	Oracle Performance and Tuning (CAP249)
	Oracle Backup and Recovery (CAP250)
Microsoft SQL Server Administrator	Microsoft SQL Server Administration (EET242)
	Microsoft Access Database (CAP223)
	Microsoft SQL Server: T-SQL (CAP255)
	Designing and Implementing OLAP Solutions (CAP256)

E-Commerce Technology

Webmaster	Internet/Intranet Design and Development (ECA228)
	Client Side Scripting (ECA225)
	Internet Design Tools (IMT124)
	Flash Animation (IMT126)
	Microsoft Server Side Scripting (ECA229)
	Open Source Server Side Scripting (ECA236)
Advanced Webmaster	CFML Tools and Design (ECA234)
	Advanced XML and Web Services (ECA247)

(Continued on page 144)

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.

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Information Technologies

Career Enhancement Programs* *(continued from page 143)*

Certificates of Competency

Computer Network Administration and Security Technology

Microsoft Windows 2003 MCSE Preparation	PC Upgrading and Maintenance (EET131) Introduction to Computer Networking (EET141) MS Windows XP and 2003 Server (ECA131) Microsoft Windows Server 2003 Network Infrastructure (ECA244) Designing Security for a Windows 2003 Network (ECA245) Administering and Implementing Directory Services and Exchange Server (ECA246)
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Computer Network Administration and Security Technology

Cisco Certified Network Associate Preparation	PC Upgrading and Maintenance (EET131) Introduction to Computer Networking (EET141) Microsoft Windows Server 2003 Network Infrastructure (ECA244) CCNA Phase I and II (ECA249) CCNA Phase III and IV (ECA250) Data Encryption and Firewall Technology (EET258)
UNIX/LINUX Administration	Computer Applications for Technical Professionals (ECA122) UNIX/LINUX Operating Environment (EET257) UNIX/LINUX System Administration (EET250) UNIX/LINUX Network Administration (EET251) UNIX/LINUX Shell Scripting (ECA254)

*These programs offer professional development for those already employed in the field and may also serve as a starting point for those considering the pursuit of a full associate degree program. Existing knowledge or skill base is assumed for certain courses. Absence of same may require prerequisite coursework. Applicants must secure department head or academic dean approval before completing the registration process. Non-degree seeking students may not be eligible for financial aid.

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Public Service Technologies

Careers in public service are in demand more than ever before. The public service technologies of Stark State College offer associate degrees in human and social services technology and early childhood education. These majors are attracting students in record numbers as our country renews its interest in public service careers. Teachers' aides, social worker paraprofessionals and childcare workers are just a few in a long list of public service career opportunities.

Stark State's goal is to attract traditional and nontraditional students to careers in public service and to provide the quality training, education, skills and values necessary for our students to succeed and excel in those fields.



Early Childhood Education

The early childhood education program prepares students for professional careers as teachers, paraprofessionals, and administrators in a variety of childcare/education settings. Graduates may seek employment in public and private preschool, Montessori, Head Start, school-age and other programs.

The associate degree program also provides a solid foundation for further education. Stark State College provides early childhood education graduates with a solid basis for pursuing a bachelor's degree in education and related fields.

Coursework features a holistic, child-centered approach to educating children that promotes the appreciation of the diversity and special needs of today's children and families. Teacher training emphasizes developmentally appropriate curriculum design and instructional skill development based on guidelines set by the National Association for Education of Young Children (NAEYC). The 69 credit hour program includes extensive field observations and a 210-hour practicum.

The qualified candidate for the associate degree in early childhood education will demonstrate professional knowledge,

abilities, dispositions, values, and attitudes regarding child development and learning, curriculum development and implementation, family and community relationships, assessment and evaluation, professionalism, and practice during field experiences.

Students are required to complete an early childhood education (ECE) application packet. The ECE application packets are distributed to students when enrolled in Introduction to Early Childhood Education (ECE121) or Curriculum Design and Instruction (ECE122).

All students interested in the ECE program are required to undergo a criminal background check prior to applying to the ECE program. Criminal background checks may prevent placements, program completion/graduation, and potential employment in the field.

Upon successful completion of the early childhood education program and with the recommendation of early childhood education department head, graduates may apply for their pre-kindergarten associate certificate from the Ohio Department of Education.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECE121	Introduction to Early Childhood Education* ◇	3
SOC123	Dynamics of the Family	3
PSY121	General Psychology	3
ENG124	College Composition †	3
		<hr/> 12
Semester II		
ECE122	Curriculum Design and Instruction◇	3
ECE123	Health Nutrition	3
SOC225	Cultural Diversity◇	3
MTH222	Statistics	3
PSY125	Child Development I◇	3
SPH121	Effective Speaking	3
		<hr/> 18
Semester III		
ECE124	Infant-Toddler Curriculum◇	2
ECE221	Language Arts◇	3
ECE222	Creative Materials and Guided Play◇	3
ECE223	Community and Family-based Programs	3
ECE226	Wrap-around Programs	2
PHL122	Ethics	3
		<hr/> 16
Semester IV		
ECE224	Early Childhood Program Administration	3
ECE225	The Exceptional Child	3
ECE227	ECE Practicum and Seminar	3
ECE228	Phonics for Young Children	3
BIO126	Science, Energy and the Environment	4
		<hr/> 16

62 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Developmental writing course requirements must be completed prior to enrollment.

◇ Requires a grade of "C" or better.

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Early Childhood Education

Intervention Specialist Option

The early childhood education program prepares students for professional careers as teachers, paraprofessionals, and administrators in a variety of childcare/education settings. Graduates may seek employment in public and private preschool, as a paraprofessional assistant teacher in MRDD program, Montessori, Head Start, school-age and other programs.

The associate degree program also provides a solid foundation for further education. Stark State College provides early childhood education graduates with a solid basis for pursuing a bachelor's degree in education and related fields.

Coursework features a holistic, child-centered approach to educating children that promotes the appreciation of the diversity and special needs of today's children and families. Teacher training emphasizes developmentally appropriate curriculum design and instructional skill development based on guidelines set by the National Association for Education of Young Children (NAEYC) and Ohio standards. The 71 credit hour program includes extensive field observations and a 210-hour practicum in a special needs classroom.

The qualified candidate for the associate degree in early childhood education intervention specialist major will

demonstrate professional knowledge, abilities, dispositions, values, and attitudes regarding child development and learning, curriculum development and implementation, family and community relationships, assessment and evaluation, professionalism, and practice during field experiences.

Students are required to complete an early childhood education (ECE) application packet. The ECE application packets are distributed to students when enrolled in Introduction to Early Childhood Education (ECE121) or Curriculum Design and Instruction (ECE122).

All students interested in the ECE program are required to undergo a criminal background check prior to applying to the ECE program. Criminal background checks may prevent placements, program completion/graduation, and potential employment in the field.

Upon successful completion of the early childhood education program and with the recommendation of early childhood education department head, graduates may apply for their pre-kindergarten associate certificate from the Ohio Department of Education.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
ECE121	Introduction to Early Childhood Education [†]	3
SOC123	Dynamics of the Family	3
PSY121	General Psychology	3
ENG124	College Composition †	3
ECE126	Educational Technology*	3
PHL122	Ethics	3
		18
Semester II		
ECE122	Curriculum Design and Instruction [†]	3
SOC225	Cultural Diversity	3
PSY125	Child Development*	3
MTH222	Statistics	3
SPH121	Effective Speaking	3
ECE125	Children with Physical Exceptionalities* [†]	3
		18
Semester III		
ECE221	Language Arts* [†]	3
ECE222	Creative Materials and Guided Play* [†]	3
ECE223	Community and Family-based Programs* [†]	3
ECE229	Educational Psychology*	3
ECE230	Children with Socioemotional Exceptionalities	3
ECE226	Wrap-around Programs [†]	2
ECE124	Infant-Toddler Curriculum* [†]	2
		19
Semester IV		
ECE224	Early Childhood Program Administration	3
ECE225	The Exceptional Child* [†]	3
ECE228	Phonics for Young Children* [†]	3
ECE227	ECE Practicum and Seminar	3
BIO126	Science, Energy and the Environment	4
		16

71 TOTAL CREDIT HOURS

- † Based on SSCT placement score.
 * Course offered this semester only
[†] Requires a grade of "C" or better.

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Human and Social Service

The human and social service program prepares students for employment as paraprofessionals in the field of social work. Career opportunities are in a wide range of human and social services.

The human and social service field is concerned with those services and occupations that provide for meeting the diverse needs of individuals and/or families for a more satisfying, self-sufficient way of life. Social services personnel must be knowledgeable about and sensitive to the unique needs and cultural diversity of people of all ages and socioeconomic circumstances. Students participate in a supervised practicum as well as classroom instruction to help develop and enhance professional skills.

Gerontology Option/Certificate of Competence

The gerontology option/certificate of competence provides students with knowledge and understanding of the normal but highly variable processes of aging and human development. Both prepare students to be more effective in working with older adults and in the implementation of programs and services for the elderly. The gerontology option/certificate of competence are both designed for the professional or paraprofessional individual currently working in the field of aging; students who anticipate working with older adults; and anyone who is interested in understanding the aging process for personal or professional reasons. The gerontology certificate of competence can be completed independently or as part of the human and social service technology degree program.

SUGGESTED COURSE SEQUENCE

		Credit Hours
Semester I		
SWK121	Introduction to Social Welfare	3
ENG124	College Composition †	3
SOC121	Sociology	3
SPH121	Effective Speaking	3
CAP120	Business Computer Applications	4
		<hr/> 16
Semester II		
SWK128/SOC125	Introduction to Gerontology***	3
SWK224	Poverty in the U.S.	3
PSY121	General Psychology	3
SWK127/PSY127	Group Processes***	4
BIO127	Human Biology	4
		<hr/> 17
Semester III		
SWK124	Methods in Practice I	3
SWK126	Human Behavior and the Social Environment	3
MTH222	Statistics	3
SWK125	Substance Abuse	3
PSC121	Political Science	3
	Elective*	3
		<hr/> 18
Semester IV		
BUS122	Basic Economics	3
SWK227	Social Services	2
SWK228	Practicum Seminar	1
SWK130	Methods in Practice II	3
SWK226	Social Service Law	3
SOC225	Cultural Diversity	3
	Elective*	3
		<hr/> 18

69 TOTAL CREDIT HOURS

† Based on SSCT placement score.

* Student may select from SWK225, SWK129/SOC126, SWK230/SOC227, SOC123, SOC222, PSY123, PSY125, PSY223, PSY221.

** Students who successfully complete SWK129 and SWK230 as their technical electives, or in addition to their technical electives, may apply for the gerontology option and/or certificate of competence.

*** Cross-listed course; HSST majors should register for the SWK version.

Note: Grade of "C" or better required for all courses relating to the gerontology option/certificate of competence.

All students in the HSST program may be required to undergo a criminal background check prior to beginning their required practicums. Criminal backgrounds may prevent placements, program completion/graduation, and potential employment in the field.

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Web-Based Learning

E-Learning at Stark State College

E-Learning is a unique alternative to traditional on-campus courses.

E-Learning furthers the College goal of increasing access to higher education. It affords the student the opportunity to learn with flexibility of time and place while maintaining access to faculty and other College services.

Stark State's goal is to offer all students the opportunity to experience E-Learning in a variety of formats, including: web-delivered classes which are offered through the web (perhaps with the exception of tests), and web-enabled classes which include a blend of both E-Learning through the web and traditional face-to-face learning.

Earn a bachelor's degree online at Stark State College

In most of the associate degree programs, all or nearly all courses may be applied toward a bachelor's degree. Bachelor's degree requirements and course transferability are controlled by the institution to which the student plans to transfer and students are urged to discuss transferability of credits with the college or university to which they plan to transfer.

To be eligible for online studies, students must have access to a computer that has an Internet connection, such as an online computer at home or Stark State computer labs. Students also need a permanent email address. Many email providers offer free email addresses. Our computer lab instructors and Office of Admissions/Student Services staff can help students get started.

Stark State has, for many years, offered transfer and articulated degree programs with numerous colleges and universities, but those listed on the following pages specifically offer online bachelor's degree programs to Stark State students.

E-Learning

Is An E-Learning Course For Me?

Our diverse student population includes those who require anytime, anywhere access to course materials. Stark State College E-Learning is presented in a variety of formats; including Web-enhanced, Web-enabled and Web-delivered classes. An E-Learning course may require more time than a traditional classroom course. Students who are comfortable using the Web for email, research and other activities, are self-motivated and can schedule their time effectively should do well with E-Learning courses. An online questionnaire is available at <http://www.starkstate.edu/webct/amiready.htm> to help students evaluate if E-Learning is an appropriate learning method.

What Is An E-Learning Course?

There are several types of E-Learning courses that may be offered by the College. A Web-enhanced course is a traditional classroom course that uses a Web site to enhance the instruction. A Web-enabled course is like a Web-enhanced course but also replaces some classroom time with Web-based instruction. A Web-delivered course is delivered totally (perhaps with the exception of tests and orientation) over the Web. Carefully read the course description that appears in the class schedule to determine if a course is Web-based, the type of Web course offered and any special requirements for that particular course.

All Web-based courses require the student to have access to the Web, be capable of using email, and other Web tools and to utilize the Web for certain class activities.

Web-Enhanced Course

This is a traditional classroom course that has a Web site where the instructor may post course information. The student may be required to utilize email, chat rooms, discussion boards or Web-based testing.

- The course index numbers for this type of course are in the 9600-9699 range.
- Web-enhanced courses are identified with a W1 in the class schedule.

Web-Enabled Course

Students attend class for up to 50 percent of the regularly scheduled class time. Students must attend on the dates listed in the class schedule. The remaining classroom time is replaced with Web-based learning. This type of course offers the student the advantage of face-to-face interaction with the instructor and classmates, while also offering the convenience of fewer visits to the college and the availability of course materials on the Web. The course Website may contain the syllabus, homework assignments or handouts and students may be required to utilize email, chat rooms, discussion boards or Web-based testing.

- The course index numbers for this type of course are in the 9700-9799 range.
- Web-enabled courses are identified with a W2 in the class schedule.

Web-Delivered Course

The majority or all of the classroom time is replaced with Web-based learning. This type of course is sometimes called an online or distance learning course. Generally, all instruction is conducted via the Web; although, a particular course may require proctored tests at Stark State College or another testing facility.

- The course index numbers for this type of course are in the 9800-9899 range.
- Web-delivered courses are identified with a W3 in the class schedule.

Supplemental Web Course

This type of course does not require Web use for the successful completion of the course. Some materials or information used in the course may be made available to the student via the Web. No special course designation is shown for these courses in the class schedule.

For more information visit Stark State's E-Learning site:

www.starkstate.edu/webct

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.

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Universities offer bachelor's degree completion at Stark State College

Earn a bachelor's degree in numerous programs at Franklin University

Stark State College of Technology has entered into an alliance with Columbus-based Franklin University that will enable Stark State students to earn bachelor's degrees without leaving the Stark State campus in:

- accounting
- applied management
- business administration
- computer science
- digital communication
- health care management
- information technology
- management
- public safety management

Additional degree programs are added periodically so be sure to check with the College's Office of Admissions/Student Services for the most current information. Stark State College has offered numerous transfer and articulated degree programs for many years, but this is an opportunity to earn a bachelor's degree without transferring to another college or university.

Students who have earned an associate degree or at least 60 semester hours of college credit (with a minimum GPA of 2.50), can enroll in 24 semester hours of "bridge courses" offered by Stark State, which prepares students for the upper-level courses offered by Franklin University. Students can then enroll in Franklin University's online courses and "attend" class via computer from labs at Stark State, from their home, or from any other online connection. Franklin's degree completion program requires

an additional 40 to 44 semester hours, depending on the major chosen.

To be eligible for this program, students must have access to a computer that has an Internet connection, such as an online computer at home or Stark State's computer labs. Students also need a permanent email address. Many email providers offer free email addresses. Our computer lab instructors and Office of Admissions/Student Services staff can help you get started.

For students enrolled in Franklin's program, course assignments are posted by email, and there will be scheduled chat sessions for class discussion and contact with professors. Students will have online access to help desks, tutorial services and library resources. Students will continue to have access to all of Stark State's facilities and services, including academic advising and job placement/career services.

Detailed, up-to-date information is available from Stark State's Office of Admissions/Student Services. Stark State's Web site (www.starkstate.edu) or Franklin University's Web site (www.franklin.edu).

Franklin University is accredited by The Higher Learning Commission of North Central Association of Colleges and Schools (30 North LaSalle Street, Chicago, IL 60602-2504; 312-263-0456) to grant both campus-based and online degrees.



Earn a bachelor's of science degree in nursing from Ashland University



The Ashland University Department of Nursing offers a Web-based RN-BSN nursing program with periodic face-to face course meetings at Stark State College of Technology.

Through a cooperative arrangement between the Departments of Nursing at Stark State and Ashland University, registered nurses can complete most requirements for the BSN degree on the Stark State campus. The four-semester Ashland University nursing sequence started on the Stark State campus in the fall of 2003 and admits a class annually as long as justified by the number of students interested.

This cooperative effort is an excellent way for working RNs to obtain a bachelor's of science in nursing without leaving Stark State College.

For more detailed information about this program call Ashland University at (800)882-1548.

Universities offer bachelor's degree completion at Stark State College

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Earn a bachelor's of science degree in computer science and engineering technology from The University of Toledo

Stark State students who earn an associate degree are eligible to complete their bachelor's degree through The University of Toledo by taking courses on Stark State's campus and via the Internet. During the first two years, Stark State students will work toward an associate of applied science degree in computer science and engineering technology. During the last two years, students will work to complete the bachelor's degree in computer science and engineering technology from The University of Toledo, focusing on computer networking and Web-based programming. This program may be completed on a part-time basis.

It is imperative that students interested in this program consult their academic advisor for additional requirements of the program. Detailed information is available from the Stark State Office of Admissions/Student Services or from the department head of computer science and engineering technology.



Earn a bachelor's of science degree in health information management technology from The University of Toledo

The University of Toledo offers health information technology majors a bachelor's of science degree completion program online. Individuals interested in pursuing a bachelor's of science degree in health information management include managers, technicians, and specialists in systems and processes for health information management.

To qualify for this program, Stark State students complete their associate degree program in the traditional program and graduate through Stark State College. Health information technology graduates may be required to take some "bridge courses" or transitional courses required by the University of Toledo's health information management program. Many of these courses may be taken in traditional Stark State classrooms or online, earning credit through the University of Toledo. Then, students continue online with their junior and senior level courses to complete their bachelor's degree through The University of Toledo.

For additional requirements of this program, consult your academic advisor or the department head of health information technology at Stark State College.

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M.B.A., Oklahoma University
C.T.R.S.

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B.A., B.M., University of Akron
M.A., Kent State University
M.B.A., University of South Carolina, Columbia

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Registered Nurse

TERRY ROYER
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B.A., University of Toledo
D.D.S., Ohio State University
Dentist

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B.A., Franciscan University of Steubenville

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Senior Professional in Human Resources

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B.A., University of Akron

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Custodian

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Master of Taxation, University of Akron
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Ph.D., Indian Institute of Technology, New Delhi

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B.S., College Misericordia
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Media Technician
B.F.A., University of Akron

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Assistant Director of Financial Aid

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A.A.B., Stark State College of Technology
A.A., Art Institute of Pittsburgh

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Ohio Certified Nursery Technician

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Network and Systems Analyst

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M.S.N., University of Akron

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Registration Specialist

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B.A., Malone College

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Life Support and Heartsaver First Aid

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B.A., Bowling Green State University
M.A., Bowling Green State University

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and Social Services
B.A., Kent State University
M.S.S.A., Case Western Reserve
Licensed Independent Social Worker

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B.S.N., Capital University
M.S.N., University of Akron
Registered Nurse
Clinical Nurse Specialist

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B.S.B.A., Bowling Green State University
M.S.Ed., University of Akron

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ASE Certified

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Dean of Health Technologies
B.S., Youngstown State University
M.S., University of Dayton

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Associate Professor of Sciences
B.S., Idaho State University
M.A., Kent State University

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B.S.M.E., University of Notre Dame
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University
M.S.T.E., University of Akron
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Certified Phlebotomist

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A.A.B., Stark State College of Technology
B.S., Walsh University
M.B.A., Ashland University

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Custodian

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B.A., College of Wooster

MELLANIE K. VANCE
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A.A.B., Stark State College of Technology

ROBERT L. VIRDEN, JR.
Custodian

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RN, Massillon Community Hospital School of Nursing
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Certified Emergency Nurse

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M.S., University of Akron

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B.S., Kent State University
M.A., Kent State University

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Custodian

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L.P.N., Mercy Medical Center
A.A.B., Stark State College of Technology

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Ph.D., Ohio State University

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Custodian

CHARLES F. WITMER
Chief of Security

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B.A., Kent State University
M.A., University of Akron

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M.A., University of Akron
Ph.D., University of Akron
Licensed Psychologist

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M.S., Clemson University

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Director of Budget
B.A., Malone College
Certified Public Accountant

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M.B.A., University of Akron

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Ed.D., University of Akron
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CHERYL A. ZUCHEGNO
Administrative Assistant II, Information Technology
and Engineering Technology

Course Descriptions

Course descriptions in this section are listed in *alphabetical order by the Course ID number*. For example, biology courses are listed under BIO, information reporting technology courses are listing under OAD, etc. In order to find the corresponding Course ID abbreviation, an alphabetical listing of departments and technologies follows:

Accounting Technology – ACC
Administrative Information Technology – OAD
Applied Industrial Technology – AIT
Automotive Technology – AUT
Biology – BIO
Business Technology – BUS
Center for Accelerated Learning – CAL
Chemistry – CHM
Civil Engineering Technology – CET
Computer Science and Engineering Technology – ECA
Computer Technology – CAP
Dental Hygiene – DHY
Design Engineering Technology – DET
Early Childhood Education Technology – ECE
Electrical/Electronic Engineering Technology – EET
Electrical Maintenance Technology – EST
Electrical Power Utility Technology – EUT
Emergency Medical Services – EMS
English – ENG
Environmental Technology – ENV
Financial Services Technology – FIN
Fire Science Technology – FST
Health Information Technology – HIT
Heating, Ventilation and Air Conditioning Technology – HVC
Human Service Development Institute – HST
Industrial Engineering Technology – IET
Information Reporting Technology – CCR
Inter-Departmental Studies – IDS
Interactive Media Technology – IMT
Management Technology – MGT
Marketing Management – MKT
Massage Therapy – MAS
Mathematics – MTH
Mechanical Engineering Technology – MET
Mechanical Service Technology – MST
Medical Assisting – MAT
Medical Instrument Sterilization – MIS
Medical Laboratory Technology – MLT
Medical Transcription Certificate – MTC
Nursing (ADN) (LPN to RN) – NUR
Occupational Therapy Assistant Technology – OTA
Philosophy – PHL
Physical Therapist Assistant Technology – PTA
Physics – PHY
Political Science – PSC
Psychology – PSY
Respiratory Care Technology – RCT
Sociology – SOC
Social Work – SWK
Speech – SPH
Special Courses in Business Technologies – BTD
Special Courses in Engineering Technology – ETD
Special Courses in General Studies and
Public Service Technology – GSD
Special Courses in Health Technology – HTD

All academic units are expressed in terms of “credit hours.” Stark State College defines a “credit hour” based on the requirements of the Ohio Board of Regents.

“Contact hours” may involve lecture, laboratory activities, clinical practice and/or instructor-directed activities.

Accounting Technology

ACC121

PRINC OF ACCOUNTING I

4 4

Pre-Req BUS123

This course is the first part of a two-semester sequence which introduces students to generally accepted accounting principles and practices in financial accounting as applied in business organizations. Upon completion of this course, students should be able to prepare financial statements and understand their uses.

ACC122

PRINC OF ACCOUNTING II

4 4

Pre-Req ACC121

This course is the second part of a two-semester course in financial accounting. The understanding and application of generally accepted accounting principles is continued and further explored as they apply to assets, claims to assets, revenue and expenses. Upon completion of this course, students should be able to complete the entire accounting cycle from transactions to financial statements using a computerized practice set.

ACC124

TAXATION

4 4

Pre-Req BUS123

This is the first course of a two-course sequence in federal income taxation. Principles of individual taxation, taxation systems, simple tax scenario analysis, and computations of gains and losses are discussed, as well as their classifications and placement in the tax formula. On completion, students should be able to analyze simple tax transactions and determine their impact on an individual's tax liability.

ACC127

BUSINESS STATS AND QUANT RESRCH

3 3

Pre-Req BUS123

This course provides knowledge and application to the Method Research methods 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 the fields of marketing research.

ACC130

BUSINESS LAW AND ETHICS

3 3

An examination of the functions of the courts 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 understanding of the business law and ethical areas mentioned above.

ACC132

FINANCIAL ACCOUNTING

4 4

Pre-Req BUS123

The course introduces the student to the fundamental process of accounting through coverage of the accounting cycle which consists of transaction analysis, the recording function and financial statement preparation and analysis. Course coverage continues with a review of receivables; inventories; property, plant and equipment; bonds and stockholder's equity. Upon completion of this course, students should be able to demonstrate competence in applying financial accounting principles and procedures and understand their financial accounting principles and procedures and understand their financial statement impact. ACC121 and ACC122 may be substituted for this course.

ACC133

MANAGERIAL ACCOUNTING

4 4

Pre-Req ACC122 or ACC132

The emphasis in this course is on the use of accounting information as an internal tool for planning and control. Course coverage includes the statement of cash flows, 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.

ACC134

INTERNATIONAL LAW

3 3

Pre-Req ACC130

The law and international transactions are explored. Also covered are sovereignty, treaties, agreements, antitrust practices, property rights and international arbitration. Upon completion of this course, students should be able to understand the sources of international law and its impact on businesses with international transactions.

ACC221

INTERMEDIATE ACCT I

4 4

Pre-Req ACC122 or ACC132 Co-Req ACC127

This is the first in a two-course sequence in the detailed study of accounting theory. It is a study of conceptual framework of accounting, disclosure standards for general purpose financial statements, and measurement standards for assets, current liabilities, 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 as related to these assets and current liabilities.

	Credit Hours	Contact Hours
ACC222 INTERMEDIATE ACCT II <i>Pre-Req ACC221</i>	4	4
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.		
ACC223 COST ACCOUNTING <i>Pre-Req ACC133, ACC127</i>	4	4
This course in cost accounting places an emphasis on internal accounting for 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.		
ACC225 AUDITING <i>Co-Req ACC222</i>	4	4
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 (including the Sarbanes-Oxley Act of 2002), audit sampling and audit workpapers. Upon completion, students should be able to demonstrate competence in applying the generally accepted auditing standards and the procedures for conducting an audit.		
ACC226 ADVANCED ACCOUNTING <i>Co-Req ACC222</i>	3	4
The study of consolidated financial statements is the primary concentration of this course. Fundamentals of fair value and equity accounting methods are reviewed, and students are exposed to the processes for consolidation of different entities and the appropriate		

financial statement considerations and disclosure requirements. Topics include valuation of acquired net assets, recognition of goodwill, the allocation of the purchase price to various elements of the balance sheet, and the elimination of intercorporate transactions in the preparation of consolidated statements. Upon completion, students should be able to discuss the permissible methods of consolidation and indicate the ability to complete a consolidation worksheet and prepare the necessary supporting schedules related to the statements.

ACC227 CURRENT ACCOUNTING TOPICS <i>Pre-Req ACC122 or ACC132</i>	3	3
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A practical course involving the detailed study of current accounting practice in areas of special interest. Topics included are payroll, receivables, payables and other emerging issues. The record-keeping, reporting and legal requirements of each area are covered. Upon successful completion of this course, the student should be proficient in the procedures and handling of the records involved in the topics covered.

ACC228 ADVANCED TAXATION <i>Pre-Req ACC124</i>	4	4
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This is an elective, second-semester course in the taxation sequence. The principles of taxation developed in the first semester are developed more fully, and more complex problems are analyzed. There is an introduction to the taxation of corporations, partnerships, estates, trusts, and gifts. Upon completion of the course, the student should be able to analyze complex taxation scenarios of various forms of a business entity and determine their impact on the entity's liability. There is a study of taxation of not-for-profit organizations. All major tax forms are covered for corporations, partnerships and not-for-profit organizations.

ACC229 ACCT PRACTICE AND PROBLEMS <i>Pre-Req ACC122 or ACC132</i>	3	4
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This is an elective course in accounting for students in the corporate option of the program. The 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 be exercised in problem solving and meeting project deadlines throughout the course. Upon completion, the student should have a functional knowledge of computerized accounting applications and systems.

ACC232

GOVT AND NOT-FOR-PRFT ACCT

4 4

Pre-Req ACC122 or ACC132

This is an elective course in accounting for students in the CPA option of the program. Upon completion, the student should have a working knowledge of the budgetary and operational accounting of governmental entities, as well as the extensive reporting required for the Comprehensive annual Financial Report (CAFR). As part of the course, students are required to complete an extensive computer application project of governmental accounting and financial reporting. Students should also have the proficiency to prepare and interpret accounting and financial reporting information of various not-for-profit organizations as well as health care organizations and educational institutions.

ACC233

ADVANCED TAXATION TOPICS

4 4

Pre-Req ACC228

This course is the capstone course for the Enrolled Agent Certification. The course expands the concepts of individual and business taxation, estate, trust, and gift taxation and not-for-profit taxation that were covered in Advanced Taxation. Tax planning for individuals, businesses, estates and trusts and gifting will be emphasized. This course is geared toward the Enrolled Agent Examination, administered by the Internal Revenue Service, and upon completion of this course the student should be prepared to take the test.

ACC234

ADVANCED PAYROLL

3 3

Pre-Req ACC227

This course is a continuation of Current Accounting Topics. 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-employed, payment of federal payroll taxes, penalties, taxable fringe benefits, supplemental pay, the gross-up of supplemental pay, advanced earn 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 and Local 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.

Applied Industrial Technology

AIT122

MACHINE TOOLS

3 5

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.

AIT123

ADVANCED MACHINE TOOLS

4 6

Pre-Req AIT122

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. Specialized processes such as indexing, gear-cutting, technology of cutting tools and basic exposure to computer numerical control machines.

AIT124

PRINCIPLE OF RIGGING

2 2

This course is designed to present the principles of rigging to the student. It includes the proper and safe methods of lifting loads using various devices and the correct procedures for moving, aligning and anchoring equipment.

AIT221

ADVANCED CNC PROGRAMMING

3 4

Pre-Req IET223

With assigned lab projects, the student will receive an in-depth development of programming skills for machining centers and turning centers. Skills include live-tooling, macro-programming and advanced automatic function programming. Machine, tooling, and workholding selection, coolant management, along with, cycle time reduction practices. Computer Aided Manufacturing (CAM) programming.

Automotive Technology

AUT121

AUTOMOTIVE TECH SKILLS

2 3

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 manuals. 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 the repair procedures for basic automotive components and systems. Classroom learning will be reinforced by lab activities.

AUT122

AUTOMOTIVE SYS AND ENG TECH 4 6

This course will introduce the student to the technology and terminology used within 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 the combustion process, fuel systems and basic emission controls will be presented. Classroom learning will be reinforced by laboratory activities.

AUT123

ENG DIAGNOSIS AND MAJ SERV 4 6

Students will study the procedures used for automobile engine and systems diagnosis and overhaul. During the diagnosis portion of this course, students will learn how to use specialized engine diagnostic test equipment. Covered also will be customer questioning techniques and information gathering procedures. During the laboratory portion of the course, students will gain hands-on experience in engine disassembly procedures, failure diagnosis, component inspection, machining processes, measuring, fitting and reassembly techniques.

AUT124

VEHICLE CHASSIS SYSTEMS 4 6

This course is designed to give the student knowledge of 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 chassis alignment and braking systems servicing will be covered. Quality work methods used when diagnosing, adjusting and repairing these safety-related systems are stressed.

AUT125

AUTO ELEC'L AND ACCES SYS 4 6

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 meters and electrical test instruments.

AUT126

AUTO HVAC SYSTEMS 2 3

Students will study the design characteristics and operating principles of automotive heating, ventilation and air conditioning systems. Topics include: heat transfer, heating and cooling cycles, air flow management and component identification. Systems operation and

troubleshooting techniques are reinforced by laboratory exercises including the recovery and recycling operations required for R12 and R134a refrigerants.

AUT141

VEHICLE CHASSIS SYSTEMS 1 1

This course is designed for Toyota dealership technicians and students who desire to become 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. Special emphasis is placed on the health and safety aspects related to automotive brake service. Information covered in this course prepares the student for ASE (A-4 and A-5) certification tests in these areas.

AUT142

AUTO ELECT SYS TOYOTA 2 2

This course is designed for Toyota dealership technicians and students who 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, with the students urged to bring their own meter. Instruction is given in wiring repair with time allotted for supervised practice. Also, batteries, starting, and charging systems are covered in depth to insure accurate diagnosis and repair of those systems. This course will emphasize: basic automotive circuit operation, circuit diagnosis, proper equipment usage for electrical circuit diagnosis, proper soldering techniques, wire and connector repair, Ohm's Law, circuit value conversions, wiring schematic interpretation, introduction to semi-conductors, vehicle body circuits including lighting, power windows and blower motor circuits, concluding with an in-depth study of starting and charging systems.

AUT143

AUTO HVAC SYS TOYOTA 750 1 1

This course is designed for Toyota dealerships technicians and students who 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. Information covered in this course should assist the student in reaching a level of understanding that is necessary to pass the ASE (A-7) Certification test in this area.

AUT144

ELECL/ELECC TERMINALS AND CONNEC 1 1

This course allows students to practice and demonstrate previously obtained skills prior to any performance based assessment. This course focuses on skills necessary to work with electrical and electronic systems, sub-systems and components on GM vehicles. The secondary focus of this course is the knowledge and skills required to identify, diagnose and repair electrical terminals and connectors associated with GM vehicles.

AUT145

ADV HVAC SYSTEMS DIAG 1 1

This course covers an introduction to air conditioning systems and advanced HVAC systems diagnostics. The first portion of the course concentrates on R12 and R134A refrigeration systems, recovery and evacuation procedures, charging, and leak testing. Specific topics include CCOT, VDOT, and TXV systems. The second portion of the course focuses on A/C system diagnostics, with additional emphasis placed on electrical and control systems. Specific topics include automatic A/C, dual zone A/C, and rear air systems.

AUT146

ELECC SUSPENSION SYSTEMS 1 1

This course covers operation and diagnosis of various chassis systems, such as electronic steering systems, tire pressure monitoring systems, ride height control systems, suspension control systems, and vehicle handling control systems. Class II communications as they relate to the above systems are also covered.

AUT147

FOUNDATION BRAKES/ABS SYS SERV 1 1

This course provides system operation and diagnostic information on various base and antilock brake systems, and their related components. Topics also include master cylinder operation, quick take-up valve operation, brake/drum operation, and hydraulic systems fundamentals.

AUT148

ENGINE MECH DIAG AND MEASUREMNT 1 1

This course covers the proper techniques and fundamental knowledge necessary to correctly isolate and diagnose abnormal engine conditions. Topics include: recommended diagnostic, measurement, and overhaul/repair procedures for GM engines.

AUT221

FUEL AND EMISSIONS MGT SYS 3 4

Pre-Req AUT121

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. Laboratory activities include overhaul and adjustment of carburetors, throttle body and port fuel injection systems, and emission control devices such as those utilized with EGR, AIR and EVAP systems.

AUT222

ENGINE SYS PER DIAGNOSIS 3 4

Pre-Req AUT121

By lecture and practical demonstration, 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 diagnostic equipment, 4 and 5-gas analyzers and oscilloscopes will reinforce student learning.

AUT223

ADV AUTO ELECTRONIC 3 4

This course provides an in-depth study of the complex electronic devices and systems used for fuel management, ignition timing, driveline and emission control. The operation of automotive microprocessors, sensors and actuators is presented in lecture and by practical demonstration. On-vehicle problem-solving exercises utilizing diagnostic charts and specialized diagnostic equipment are a major part of student laboratory activities.

AUT224

AUTO DIESEL SYSTEMS 2 2

Pre-Req AUT121

Covered by lecture and demonstration is the theory of operation of automotive diesel engines and auxiliary equipment such as injection pumps, glow plug control systems and diesel emission control devices. Student learning is reinforced by laboratory exercises emphasizing the correct application of diagnostic procedures and servicing methods used with automotive diesel systems.

AUT225

AUTO DRIVETRAIN 1 3 4

Pre-Req AUT121

In this course, the student will learn the design characteristics and operation of clutches, manual transmission/transaxles, rear axle assemblies, four-wheel drive systems and traction assist devices. From lab assignments students will receive hands-on experience in the diagnosis, servicing and overhaul of these units.

AUT226

AUTO DRIVETRAIN 2 3 4

This course continues the study of automotive transmissions by introducing the student to systems that utilize hydraulic principles and fluid flow dynamics in the control of automatic transmission geartrains. Student knowledge of individual transmissions and subassemblies operation will be reinforced by hands-on laboratory activities which include dynamometer testing of rebuilt transmissions. The basic operation and diagnosis of electronically controlled transmissions will be introduced.

	Credit Hours	Contact Hours
AUT227 COMPUTERIZED VEH CONTROL <i>Pre-Req AUT121</i>	3	4
The emphasis in this course is placed upon problem-solving strategies utilized in the diagnosis of computerized vehicle control systems. Subjects covered by lecture and practical demonstration include data stream and trouble code analysis, advanced scanner and oscilloscope techniques and diagnosis of body computer control systems.		
AUT228 AUTO SERVICE MANAGEMENT	2	3
The course provides an introduction to the theory and practice of an important mid-management position in the automotive service industry. To provide the basic knowledge and skills necessary for this position, topics include: customer-employee relations, scheduling and dispatching, legal and ethical responsibilities, consumer affairs, financial aspects and quality assurance programs. A field service component is incorporated in the course work.		
AUT229 AUTO MAINTENANCE WELDING <i>Pre-Req AUT121</i>	2	4
This course will study the identification and basic composition of metals commonly found in automotive applications. The selection of the correct equipment, rod materials and processes used in gas and electric welding will be presented by lecture and demonstration and reinforced by laboratory assignments.		
AUT230 TECHNICAL PROJECT	2	3
This is an independent study course in which the student will create an automotive-oriented project that utilizes skills learned in previous automotive engineering 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.		
AUT231 SPECIALIZED ELEC TRAIN <i>Pre-Req AUT125</i>	3	4
This is an elective course for automotive students who 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.		

	Credit Hours	Contact Hours
AUT232 FUEL INJECTION-EFI/PFI <i>Pre-Req AUT223, AUT227</i>	2	2
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 driveability 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.		
AUT233 AUTO DIAGNOSTIC APPLIC <i>Pre-Req AUT221</i> <i>Co-Req AUT223</i>	2	3
An advanced-level course that serves as a capstone for the automotive engineering technology program by providing 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.		
AUT241 BODY CONTROL SYSTEMS	1	1
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.		
AUT242 ENTERTAINMENT SYSTEMS	1	1
This course covers methods of operation and procedures for diagnosis of both GM audio systems and video entertainment systems. Systems entered include antennas, lead-in cables, integral receivers, remote components including receivers, control heads, tape players, CD and video players, and steering wheel controls (SWC). Diagnosis and correction of audio systems, noise conditions, and video system malfunction are also covered.		

AUT243

GM AIR BAG SYSTEMS

1 1

This course focuses on front, side, and rear air bag systems. Students will gain skills and information to identify the different air bag systems and components, disarm and safely handle system components. Diagnostic tests will be performed, utilizing the Tech 2 scan tool, and digital multimeter. The course also includes content on the safe disposal and shipping of inflator modules.

AUT244

ALLISON LCT 1000 AUTO TRANS DI

1 1

This course allows the students to develop the knowledge and skills needed to properly diagnose the Allison LCT 1000 Transmission conditions related to the TCM and PCM. Emphasis will be placed on recognizing normal operating parameters. Students will also perform mechanical disassembly and reassembly procedures as well as critical measurements for indepth understanding of the ALLISON LCT 1000 Transmission.

AUT245

VIBRATION CORRECTION

1 1

This course covers the theory of vibration, basic to advanced vibration diagnosis, and correction techniques. Specific topics include, usage of the electronic vibration analyzer (EVA), dial indicator, wheel balancer, and other current tools.

AUT246

REAR AXLE AND PROPELLER SHAFT

1 1

This course provides students with the fundamentals of rear axel and propeller shaft operation. Topics include propeller shafts and limited-slip differentials, also included are proper maintenance, service procedures, basic vibration, and noise diagnosis.

AUT247

VEH EMISSION, ENHANC TEST AND DI

1 1

This course is designed to prepare the student for the enhanced inspection/maintenance (I/M) programs. The course includes information about the enhanced I/M programs, government regulations and emissions, emission control systems, and exhaust gas analysis. Hands-on exercises include interpreting I/M test reports, using a five gas engine analyzer, use of new and extension tools needed for testing oxygen sensors, catalytic converters, fuel and evaporation systems, and other emissions control components.

AUT248

GM POWERTRAIN PERFORMANCE

2 2

This course focuses on engine control subsystems and proper diagnosis of performance related conditions. Specific topics include: driveability, diagnosis, fuel injection systems, ignition systems, emission controls, PCM functions, and tech 2 scan tools usage.

AUT249

DIESEL ENGINE PERFORMANCE

1 1

This course focuses on the duramax 6.6L diesel engine operation and performance, major subsystem integration, and proper diagnosis of diesel engine conditions. Specific systems covered are the fuel systems and electronic engine controls.

AUT250

AUTO TRANSMIS/TRANSAXLE DIAG

1 1

This course will help the student to develop the knowledge and skills needed to properly diagnose transmission faults related to electrical inputs to the PCM and their effects on transmission operation. Specifics covered in this course include: strategy based diagnostics, TCC operation, shift quality, and OBD II System diagnostic information.

AUT251

AUTOMOTIVE DRIVETRAINS I

1 1

This course is designed for Toyota dealership technicians and students who 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.

AUT252

AUTOMOTIVE DRIVETRAINS II

1 1

This course is designed for Toyota dealership technicians and students who desire to become Toyota dealership technicians. The purpose of this course is to familiarize the student with the operation of Toyota automatic transmission diagnosis, servicing and repair techniques. Hands-on practice will enable the student to apply these concepts and procedures to Toyota vehicles. This course will follow the NATEF guidelines for ASE Automotive Certification A-2 automatic Transmission/Transaxle.

AUT253

COMPUTERIZED VEHICLE CONTROLS

1 1

This course is designed for Toyota dealership technicians and students who 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. Throughout the course students complete self-assessment worksheet that contain theory-based questions and hands on practice. This course will follow the NATEF guidelines for ASE Automotive Certification A-8 Engine Performance.

Biology

BIO101

INTRO TO ANAT AND PHYSIO

3 3

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.

BIO121

ANATOMY AND PHYSIOLOGY I

4 5

Pre-Req BIO101

The human body is presented as an integrative, homeostatic organism with emphasis on the underlying chemical and cellular processes necessary for proper functioning. The first course in a two-semester sequence examines the structure and function of basic histology, the integument, musculoskeletal system, and the central as well as somatic nervous system. The laboratory portion of the course includes extensive dissection of human cadavers as well as interactive computer simulations of physiological processes.

BIO122

ANATOMY AND PHYSIOLOGY II

4 8

Pre-Req BIO121 or BIO123

Continued study of the human body focuses on the influence provided by the nervous and endocrine systems upon the cardiovascular, respiratory, renal, digestive and reproductive systems. Introductory immunology concepts are also included. The laboratory portion is similar to that presented in Anatomy and Physiology I with the addition of case study presentations which allow the student to contrast normal physiology with basic pathophysiology.

BIO123

PRIN OF HUM STRUCT AND FUN

5 7

Pre-Req BIO101 or BIO121

A one-semester accelerated anatomy and physiology course which introduces the human body at the cellular, tissue, organ and system levels of organization with the emphasis on the relationships between each level. Laboratory includes dissection of the human cadaver and preserved mammalian organs.

BIO124

PATHOPHYSIOLOGY

3 3

Pre-Req BIO122 or BIO123

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.

BIO125

MEDICAL TERMINOLOGY

3 3

An introduction to medical word structure, including prefixes, suffixes, roots, plurals and abbreviations. Spelling, definitions and pronunciation are stressed and reinforced by frequent examination.

BIO126

SCIENCE, ENERGY AND THE ENV

4 5

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.

BIO127

HUMAN BIOLOGY

4 6

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.

BIO221

PRINC OF MICROBIOLOGY

4 6

Pre-Req BIO122 or BIO123

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.

BIO222

PHARMACOLOGY

3 3

Pre-Req BIO122 or BIO123

A course that introduces the student to general pharmacology, including drug nomenclature, classifications, and therapeutic and side effects on the body systems and functions.

Business Technology Special Courses

BTD201

BUS INDEPENDENT STUDY 1 10

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.

BTD202

BUS INDEPENDENT STUDY 2 20

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.

BTD203

BUS INDEPENDENT STUDY 3 30

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.

BTD204

BUS INDEPENDENT STUDY 4 40

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.

BTD222

BUSINESS CO-OP 2 20

Co-op opportunities are available to students enrolled in Business Technologies. Students may contact their faculty advisors or Career Services for more information.

BTD223

BUSINESS CO-OP 3 30

Co-op opportunities are available to students enrolled in Business Technologies. Students may contact their faculty advisors or Career Services for more information.

BTD224

BUSINESS CO-OP 4 40

Co-op opportunities are available to students enrolled in Business Technologies. Students may contact their faculty advisors or Career Services for more information.

BTD225

SPECIAL TOPICS 1 1

Special topics in Business Technology Division. Repeat registration permitted.

BTD226

SPECIAL TOPICS 2 2

Special topics in Business Technology Division. Repeat registration permitted.

BTD227

SPECIAL TOPICS 3 3

Special topics in Business Technology Division. Repeat registration permitted.

BTD228

SPECIAL TOPICS 4 4

Special topics in Business Technology Division. Repeat registration permitted.

Business Technology

BUS121 BUSINESS ADMINISTRATION 4 4

Pre-Req ENG102

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.

BUS122

BASIC ECONOMICS 3 3

Pre-Req ENG102

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.

BUS123

BUSINESS MATHEMATICS 4 4

Pre-Req MTH101

This course is designed to present and facilitate the mastery of many of the mathematical concepts that are necessary for a successful career in today's business environment. These concepts include equations and formulas, payroll, mathematics of buying, markup, markdown and inventory control, simple interest, business statistics, notes and bank discounts, compound interest, business and consumer loans, and ordinary annuities. Upon successful completion of this course, the student should be able to apply fundamental math concepts to business problems.

	Credit Hours	Contact Hours
BUS221 MICROECONOMICS	3	3
<i>Pre-Req ENG102</i>		
An in-depth study of microeconomic concepts and principles such as supply and demand, cost and output determination in different market structures and marginal analysis. Upon completion, students should be able to demonstrate an understanding and be able to apply the above topics to business.		
BUS222 MACROECONOMICS	3	3
<i>Pre-Req ENG102</i>		
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.		
BUS223 INTERNATIONAL ECONOMICS	3	3
<i>Pre-Req BUS221 and BUS222</i>		
This course covers the economic analysis of international trade and foreign investment, including theories of international trade, balance of payments, exchange rates and international monetary arrangements, adjustments of payments disequilibrium, and government policies on trade and aid. Upon completion, students should be able to demonstrate an understanding of the international economic environment.		
Center for Accelerated Learning		
CAL101 RDG TECH COMPREHENSION	3	3
A computer-assisted laboratory course designed to enhance students' performance in college-level course work. Included in the curriculum are units on effective note-taking, organizational skills, test-taking strategies, critical reading skills, speed reading, stress reduction strategies, library utilization skills, learning styles and other related topics. Placement based on score achieved on entrance assessment tests. Proficiency of 80% constitutes passing.		
CAL102 INTRODUCTION TO GRAMMAR	3	3
A computer-assisted course that stresses basic rules of grammar, punctuation, spelling and sentence writing. Placement based on score achieved on entrance assessment tests. Proficiency of 80% constitutes passing.		
CAL103 MATH FUNDAMENTALS	4	4
This course covers the fundamentals of arithmetic and basic algebraic concepts. Topics include arithmetic operations, fractions, decimals, percentages, ratios, proportions, metric system, areas, volumes, signed		

numbers, introduction to equations and application problems. Placement based on score achieved on entrance assessment tests. Proficiency of 80% constitutes passing.

CAL104 COMPUTER CONCEPTS	1	2
This self-paced course is designed to familiarize the beginner with the personal computer. It addresses computer literacy, the Windows operating environment, program and file management, and introduces the Internet, web browsers, and e-mail. Placement is based on score achieved on entrance assessment tests. Proficiency of 80% constitutes passing.		

CAL105 WRITING FUNDAMENTALS	3	3
A course covering the fundamentals of grammar, punctuation and usage. This systematic review is incorporated within sentence and paragraph applications. Proficiency of 80% constitutes passing, (A, B, NC/F).		

Computer Technology

CAP120 BUSINESS COMPUTER APPLICATIONS	4	4
<i>Pre-Req CAL104 or OAD100 or OAD125</i>		
Business Computer Applications is designed to present the essential concepts of Microsoft Office Suite applicable to today's business world. Areas of concentration include Windows, Word, Excel, Access, and PowerPoint. Upon completion, students should be able to demonstrate competency by interacting with the Windows operating system and to produce electronic presentations, written business documents, electronic spreadsheets and business graphics.		
CAP125 ADVANCED MICROSOFT APPLIC	3	4
<i>Pre-Req ECA122 or CAP120 or CAP124</i>		
This course is designed to present Microsoft Office concepts in further detail. MS Word, Excel, Power Point, and Outlook will be covered at an advanced level required by most tier 2 help desks. Upon completion, students should be able to troubleshoot and provide technical support for sophisticated documents, workbooks, presentations and e-mail related issues.		
CAP134 SPREADSHEET ANALYSIS	3	4
<i>Pre-Req ECA122</i>		
Excel is a powerful tool capable of performing a variety of analytical functions used for budgeting, accounting and financial analysis. Applications created will include statistical, logical, financial and string functions; graphics; data manipulation; macros; "what-if" analysis; programming custom menus and transferring data to/from other software. Upon completion, students should be able to plan, implement, test and document complex spreadsheet models.		

	Credit Hours	Contact Hours
CAP138		
ISERIES OPERATING ENVIRONMENT	3	4
<i>Pre-Req ECA122 or ECA127 or CAP121</i>		
Addresses the fundamental operations, screens and terminology of the iSeries operating system. Exposure is given to different CL commands and menus used to create, maintain, and manipulate libraries, objects and members on the iSeries. Students should gain an understanding of object structure, utilities and database management capabilities and the Control Language.		
CAP139		
INTRO TO ORACLE SQL	3	4
This course offers students an extensive introduction to data server technology. The class covers the concepts of both relational and object relational databases and the powerful SQL programming language. Students are taught to create and maintain database objects and to store, retrieve, and to manipulate data. Students learn to write SQL and SQL*Plus script files using the SQL*Plus tools to generate report-like output. Demonstrations and hands-on practice reinforce the fundamental concepts.		
CAP141		
ORACLE PL/SQL PROGRAMMING LANG	3	4
<i>Pre-Req CAP139</i>		
The course introduces PL/SQL and helps students understand the benefits of this powerful programming language. The student will create PL/SQL blocks of application code that can be shared by multiple forms, reports and data management applications. The student will use SQL*Plus to develop these program units, learn to manage PL/SQL program units and database triggers to manage dependencies, to manipulate large objects, handle exceptions and to use some of the Oracle-supplied package.		
CAP142		
ORACLE ARCHITECTURE AND ADMIN	3	4
<i>Pre-Req CAP139</i>		
Students will gain a conceptual understanding of the Oracle database architecture and how its components work and interact with one another. They will also learn how to create an operational database and properly manage the various structures in an effective and efficient manner. All lesson topics are reinforced with structured hands-on labs.		
CAP223		
MICROSOFT ACCESS DATABASE	3	4
This course introduces the basic concepts of Database Management Systems and the conceptual analysis of their purpose and use. Primary emphasis is on acquiring a working knowledge of a database management system. A hands-on approach will allow the student to learn by doing while organizing data for use in multiple business applications. The student will work through prepared assignments using a popular software package. Upon completion, the student should be able to develop confidence and skill by developing, maintaining and using database applications.		

	Credit Hours	Contact Hours
CAP224		
VISUAL BASIC FOR APPLICATIONS	3	4
<i>Pre-Req ECA122 or CAP120 or CAP223</i>		
This course will expose students to Microsoft Visual Basic for Applications. VBA is a powerful development technology for rapidly customizing rich-client desktop packaged applications and integrating them with existing data and systems. VBA offers a sophisticated set of programming tools based on the Microsoft Visual Basic development system.		
CAP248		
APP DEVEL FOR ORACLE DATABASE	3	4
<i>Pre-Req CAP139</i>		
The course teaches participants how to develop code for database applications. Topics include Oracle database access with Java, XML, PL/SQL, WebDB as well as Web Site Development with Oracle.		
CAP249		
ORACLE PERFORMANCE AND TUNING	3	4
<i>Pre-Req CAP142</i>		
Students develop the ability to manage an advanced information system and learn several methods to enhance performance of the Oracle database. Hands-on workshops provide experience in a realistic technical environment. Upon completion, students should develop the skills that will prepare them for a database administration position.		
CAP250		
ORACLE BACKUP AND RECOVERY	3	4
<i>Pre-Req CAP142</i>		
Students develop the ability to manage an advanced information system and learn several methods to backup and to recover the Oracle database. Hands-on workshops provide experience in a realistic technical environment and help students develop skills for basic network administration.		
CAP255		
PRGRMNG IN T-SQL FOR SQL SERV	3	4
<i>Pre-Req ECA122</i>		
Topics include the elements of SQL Server 2000, SQL Server enterprise architecture; Transact-SQL; data integrity, constraints, defaults, rules, indexes, views, stored procedures, triggers, and locks. Upon completion, students will be able to manipulate a Microsoft SQL Server database using T-SQL and the SQL Server tools.		
CAP256		
DES AND IMPL OLAP SOLUTIONS	3	4
<i>Pre-Req EET242</i>		
Topics include data warehousing, OLAP services, analysis services, dimensions, cubes, stores, drill through, security, data mining, multidimensional expressions (MDX) and data marts. Upon completion, students with the knowledge and skills necessary to design, implement, and deploy OLAP solutions by using Microsoft SQL Server analysis services.		

	Credit Hours	Contact Hours
CAP257		
MS APPLICATION TECHNICAL EXPERT	3	4
<i>Pre-Req CAP125</i>		

This course will focus on advanced Microsoft Office functionality from the perspective of the help desk technician. The topics included are macros, VBA, creating online forms, linking Excel worksheets and charting data in Word, auditing in Excel, Importing external data, creating data maps, creating reports in Access, and distributing presentations to remote audiences.

Information Reporting Technology

CCR121	4	8
REALTIME THEORY I		

Introduces to stenotype machine theory and technique, with emphasis on recording, note reading, and transcribing practice in preparation for more advanced courses in machine reporting. Students will learn realtime electronic shorthand with instruction utilizing online, computer-aided transcription technology. Upon completion, the student should be able to demonstrate knowledge of stenotype machine theory learned in CR Theory I.

CCR122	4	8
REALTIME THEORY II		
<i>Pre-Req CCR121</i>		

Mastery of stenotype machine theory and technique. Instruction and practice to develop recording, note reading and typewritten transcription skills, as well as mastery of realtime electronic shorthand in preparation for more advanced courses in the information reporting technologies program. Instruction shall include the use of online, computer-aided transcription technology. Upon completion, the student should be able to write the spoken word with punctuation by means of a conflict-free reporting theory as approved by NCRA to provide instantaneous translation.

CCR123	2	7
SPEEDBUILDING III		
<i>Pre-Req CCR130</i>		

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, use online computer-aided transcription technology. This course is designed for self-paced modular instruction. This lab is designed to prepare students to write graduation speed requirements for all options in the information reporting technology program: For the judicial reporting option, passing three 5-minute machine shorthand tests of literary at 180 wpm, jury charge at 200 wpm, and courtroom testimony material at 225 wpm with a minimum of 95% accuracy; and for the captioning option, passing one 5-minute machine shorthand test of literary

at 200 wpm with 98% accuracy before writing a 30-minute broadcast news program with a TER goal of 98% accuracy or higher based on total word count (TER=Total Error Rates). Upon graduation, students should be able to pass the National Court Reporters Association's certification examinations.

CCR129	4	8
SPEED BUILDING I		
<i>Pre-Req CCR122, OAD121</i>		

Designed to increase speed, endurance, and accuracy for reporting of multi-voice testimony, jury charge, 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 will include the use of on-line, computer-aided transcription 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.

CCR130	4	8
SPEED BUILDING II		
<i>Pre-Req CCR129</i>		

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 shall include the use of online, computer-aided transcription 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.

CCR131	3	4
LEGAL TERMINOLOGY		

Instruction in legal terminology in civil law; criminal law; and the discovery, trial and appellate processes. Upon completion, the student should be able to comprehend, appreciate and use legal terms.

CCR132	1	2
REALTIME WRITING 1		
<i>Pre-Req CCR121</i>		

Co-Req CCR122, CCR229

Using an NCRA approved realtime theory, students' realtime writing skills on the steno machine will be reinforced. Mastery of briefs and phrases will be emphasized in realtime writing skills to build up to graduation speeds. Upon completion, students should be able to incorporate brief forms and phrases into their realtime writing for judicial reporting or broadcasting captioning.

	Credit Hours	Contact Hours
CCR228 REALTIME TRANSCRIPTION <i>Pre-Req BIO125, CCR129</i>	3	4
Realtime transcription training using realtime computer equipment to practice and perfect specialized transcription skills in legal, medical, media and education. The transcription training will be specific to the student's choice of career option. Upon completion, students should be able to proficiently transcribe and format documents.		
CCR229 REALTIME SOFTWARE APPLICATIONS <i>Pre-Req CCR121</i>	1	2
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 stenograph 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.		
CCR230 BASIC BROADCAST CAPTIONING <i>Pre-Req CCR122</i>	3	4
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.		
CCR231 JUDICIAL PROCEDURES <i>Pre-Req CCR122, CCR229</i>	3	4
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.		

	Credit Hours	Contact Hours
CCR232 INFORMATION REPORTING INTERNSHIP <i>Pre-Req CCR130</i> <i>Co-Req CCR123</i>	2	7

The following must be met for each option in the IRT program:

Judicial Option: Internship shall include a minimum of 50 hours of participation (40 hours of actual writing time) under the supervision of a practicing realtime reporter using machine shorthand technology. Specific graduation requirements must be passed for the judicial option: three 5-minute machine shorthand tests of literary at 180 wpm, jury charge at 200 wpm and courtroom testimony material at 225 wpm must be passed with a minimum of 95% accuracy; must transcribe a simulated RPR skills test at RPR speed levels in 3.5 hours; and must write a simulated CRR skills test at a speed of 180-200 wpm literary for 5 minutes.

Captioning Option: Internship shall include a minimum of 50 hours of captioning under the supervision of a practicing captioner or institutional instructor. Specific graduation requirements must be passed for the captioning option: one 5-minute machine shorthand test of literary at 200 wpm must be passed with 98% accuracy before writing 30-minute broadcast news program with a TER goal of 98% accuracy or higher based on total word count. (TER= Total Error Rates)

Realtime Transcription Option: Internship shall include a minimum of 50 hours of realtime transcription in an administrative environment or under supervision of an institutional instructor. For all options in the IRT program: Pass at least two 5-minute keyboarding tests from unfamiliar material at a minimum of 60 wpm with a maximum of 5 errors. Upon graduation, students should be able to pass the National Court Reporters Association's certification examinations relevant to their option.

CCR235 ADVANCED BROADCASTS CAPTIONING <i>Pre-Req CCR230</i>	3	4
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This course is designed to teach students in-depth realtime/caption skills. Topics include how to research for specific shows, development and management of specific captioning dictionaries, further 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.

	Credit Hours	Contact Hours
CCR236 ADVANCED THEORY PRINCIPLES <i>Pre-Req CCR122</i> <i>Co-Req CCR129</i>	3	4
This course is designed for those students who already know the steno machine keyboard and who may be enrolled in Speedbuilding I. This course emphasizes advanced review and reinforcement of the theory principles learned in Realtime Theory I/II. Students will review the theory principles through the use of lecture, a text and tape dictation. The instructor will reinforce the principles through theory principle testing, reinforcement of briefs, phrases, and mandatories, and live or audio dictation. Upon completion of this course, students should be able to successfully write a realtime, conflict-free machine shorthand at an accuracy rate of 95% or higher without hesitation and through muscle memory.		
CCR237 REALTIME WRITING II <i>Pre-Req CCR122</i> <i>Co-Req CCR129, CCR130, CCR123</i>	1	2
Using an NCRA-approved realtime theory, numeric and siphabetic writing skills on the steno machine will be reinforced. Mastery of writing phonetically and writing proper names using the alphabet in fingerspelling found in the judicial reporting and broadcast captioning settings will be emphasized. Upon completion, students should be able to write numbers fluently using phonetic spelling and fingerspell proper names using stenotyping and the phonetic table of the translation dictionary during timed dictation.		
CCR238 REALTIME WRITING IV <i>Pre-Req CCR236</i> <i>Co-Req CCR130, CCR123</i>	1	2
Using an NCRA approved realtime theory, students should be able to build realtime writing speed by writing in 1-, 2-, 3-, and 5-minute increments through live and/or taped dictation at various speeds. Students will increase writing endurance at the steno machine by writing dictation for a minimum of 15 minutes with an 96% accuracy rate. With instructor assistance, students will be able to identify personal strengths and weaknesses in writing technique. This course is a supplemental course to Speedbuilding III. Upon completion, students should be able to write at a controlled speed for a sustained period of time at the accuracy rate of 96%.		
CCR239 REALTIME WRITING III <i>Pre-Req CCR122</i> <i>Co-Req CCR130, CCR123</i>	1	2
Advanced instruction in building translation dictionary entries and maintaining specific job dictionaries for use in the judicial and broadcast captioning fields. Students will also make backup copies of the job dictionaries they have created. Upon completion, students should be able to properly maintain any job dictionary created in the		

realtime software and prioritize dictionaries according to specific usage (judicial reporting, broadcast captioning, CART).

Civil Engineering Technology

CET121 BLDG MAT AND CON MET	3	4
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.		
CET122 ARCHITECTURAL DRAFT I	3	5
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.		
CET123 ARCHITECTURAL DRAFT II <i>Pre-Req CET122</i> <i>Co-Req CET121</i>	3	5
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.		
CET124 HIGHWAY AND MAP DRAWING <i>Pre-Req MTH121</i>	2	4
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.		
CET125 SOIL MECHANICS <i>Pre-Req MTH121</i> <i>Co-Req MET124</i>	3	4
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.		
CET221 SURVEYING GRAPHICS <i>Pre-Req CET227, DET125</i>	3	4
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.		

	Credit Hours	Contact Hours
CET222 CONCRETE AND ASPHALT TEST <i>Pre-Req CET121, MTH121</i>	3	4
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.		
CET223 STRUCTURAL DESIGN I <i>Pre-Req MET124</i>	3	5
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.		
CET224 STRUCTURAL DESIGN II <i>Pre-Req CET223</i>	3	5
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.		
CET225 SITE AND BUILDING SERVICE SYS <i>Pre-Req CET121, MTH121</i>	3	5
This course examines hydraulics and hydrology in connection with storm water management, the design of management systems, water supply and waste for buildings, thermodynamics of buildings, HVAC design and lighting design.		
CET226 ESTIMATING <i>Pre-Req CET121, ECA122, MTH121; CET122 or DET125</i>	3	5
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.		
CET227 SURVEYING I <i>Pre-Req MTH121</i>	3	5
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.		

	Credit Hours	Contact Hours
CET228 SURVEYING II <i>Pre-Req CET227</i>	3	5
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.		
CET229 SURVEYING III <i>Pre-Req CET228, ECA122</i>	3	5
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.		
CET231 LEGAL PRINC OF SURVEYING	3	3
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.		
CET232 LAND PLANNING AND DESIGN <i>Pre-Req CET122, CET124, DET125</i> <i>Co-Req CET227</i>	3	5
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 site in accordance with zoning and subdivision regulations.		
CET233 ARCHITECTURAL DESIGN <i>Pre-Req CET121, CET123</i>	3	5
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.		

	Credit Hours	Contact Hours	
CET234 A/E CAD	2	4	
<i>Pre-Req CET121, CET122, DET125</i>			
Building on the concepts learned in Basic AutoCAD, this course is designed to explore the production of architectural working drawings using software designed specifically for the architectural/engineering disciplines. Students will produce a variety of architectural working drawings on the computer-aided drafting system.			
CET235 CONSTR MGT, JOB COST AND SAFETY	3	3	
<i>Pre-Req CET121, ECA122</i>			
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.			
CET236 GLOBAL POSITIONING SYS	3	4	
<i>Pre-Req CET227</i>			
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.			
CET237 INTERPRETING CONSTRUCTION DOC	2	3	
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. A study of the general conditions to the contract rounds out the students' exposure to contract documents.			
CET239 BUILDING CODE APPLICATION	2	3	
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.			
Chemistry			
CHM101 INTRO TO CHEMISTRY	4	4	
<i>Pre-Req MTH101</i>			
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.

CHM121 GENERAL CHEMISTRY	4	5
<i>Pre-Req CHM101</i>		

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.

CHM122 ORGANIC AND BIOLOGICAL CHM	4	5
<i>Pre-Req CHM121</i>		

The course examines the structures, names, reactions and physical properties of the major groups of organic and biological compounds including alkanes, alkenes, alkynes, aromatics, alcohols, ethers, aldehydes, ketones, carboxylic acids and esters and biological compounds including carbohydrates 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.

Design Engineering Technology

DET121 ENGINEERING DRAWING	3	5
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.		

DET122 DESCRIPTIVE GEOMETRY	3	5
<i>Pre-Req DET121</i>		

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.

DET124 WORKING DRAWINGS	3	5
<i>Pre-Req DET121</i>		

Co-Req DET125
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.

	Credit Hours	Contact Hours
DET125 BASIC AUTOCAD	3	5
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.		
DET126 CUSTOMIZING AUTOCAD	3	4
<i>Pre-Req DET125</i> Building on concepts learned in Basic AutoCAD, this course begins with a review of the changes added in the last software update and then 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.		
DET130 BASIC UNIGRAPHICS	3	4
<i>Pre-Req DET121</i> This course is an introduction to three-dimensional drawings using EDS-Unigraphics software. Course will focus on practical applications of design using the Unigraphics system to develop parametric solid model representations of parts and assemblies. Topics include: parametric modeling, expressions, assemblies, drafting, reference features, and explicit curve creation.		
DET131 BASIC PRO/ENGINEER	3	4
<i>Pre-Req DET121</i> An introduction to three-dimensional drawings using Parametric Technology Corporation - Pro/ENGINEER software. Course will focus on practical applications of design to develop parametric solid model representations of parts and assemblies. Drafting techniques will also be covered. Prior experience with CAD is helpful for students entering this course.		
DET223 KINEMATICS	3	5
<i>Pre-Req PHY121</i> 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.		

	Credit Hours	Contact Hours
DET226 GEOMETRIC DIM AND TOL	2	3
<i>Pre-Req DET124</i> Designed to introduce students to the type of dimensioning that is part of ANSII 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.		
DET230 ADVANCED AUTOCAD (INVENTOR)	3	4
<i>Pre-Req DET125</i> 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.		
DET231 TOOL DESIGN	3	5
<i>Pre-Req DET124, DET125</i> 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.		
DET232 ADVANCED PRO/ENGINEER	3	4
<i>Pre-Req DET131</i> Three dimensional drawing using Pro/ENGINEER advanced design features such as: top-down design: skeletons and layout models; advanced sketching, geometry, components, patterns, and surface options; creating and modifying models, dimensions, bill of materials, and features; and plotting.		
DET233 ADVANCED UNIGRAPHICS	3	4
<i>Pre-Req DET130</i> This course covers advanced methods of model design with emphasis on design intent and model modification associativity. Topics include: parametric design intent and model modification associativity. Topics include: parametric modeling, constraint-based modeling using sketcher, interpart expressions, assemblies, mating conditions, top-down and bottom-up modeling and part families.		

Dental Hygiene

DHY121

HEAD, NECK AND ORAL ANATOMY 2 3

The course addresses gross anatomy of the head and neck, tooth morphology and physiology of occlusion.

DHY122

ORAL HIST AND EMBRYOLOGY 1 1

Embryological development and histologic characteristics of the orofacial organs and structures is presented.

DHY123

DENTAL RADIOGRAPHY 3 5

Pre-Req DHY121

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.

DHY124

PERIODONTICS I 1 1

Pre-Req DHY122

Explores etiology, diagnosis and prevention of diseases affecting tissues that support, attach and surround the teeth. Observation field experience is required.

DHY125

DENTAL MATERIALS 3 5

Pre-Req DHY131

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.

DHY126

PATHOLOGY 2 3

Pre-Req DHY122

Concepts of developmental/growth disturbances; diseases of microbiological origin; injury and repair; metabolic and disease disturbances; and oral manifestations of diseases and conditions is presented.

DHY131

FUND DENTAL HYGIENE PRAC 4 8

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.

DHY132

DENTAL HYGIENE THEORY I 2 2

Pre-Req DHY131

Co-Req DHY133

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.

DHY133

CLINICAL DENTAL HYG I 2 6

Pre-Req DHY131, DHY123

Co-Req DHY132

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.

DHY134

CLINICAL DENTAL HYG IA 1 3

Pre-Req DHY133

Supervised clinical patient care experiences which allow further development of clinical skills and application of concepts. Emphasis on patient management and effective communications.

DHY221

NUTRITION IN DENTISTRY 1 1

Pre-Req DHY132

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.

DHY222 DENTAL PHARMACOLOGY 2 2

Pre-Req BIO221, DHY126

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 and control pain and anxiety is emphasized.

DHY223

COMMUNITY ORAL HEALTH 2 3

Pre-Req DHY134

Concepts of assessing, planning, implementing and evaluating oral health programs for community groups is presented. Learning experiences emphasize reading scientific literature, understanding statistical reporting and relating to community health education agencies and programs in the practical application of the concepts. Field experiences are required.

	Credit Hours	Contact Hours
DHY224 PERIODONTICS II <i>Pre-Req DHY124</i>	1	1
This course builds upon and reinforces fundamentals of periodontics with clinical case applications. Periodontal evaluation and surgical and chemotherapeutic treatment modalities are discussed and experienced through a required field observation. Current advances in periodontic research and therapy is presented.		
DHY231 DENTAL HYGIENE THEORY II <i>Pre-Req DHY132</i> <i>Co-Req DHY232</i>	2	2
Designed to further explore treatment modalities and dental hygiene services such as dietary analysis and counseling, oral hygiene indices, and tobacco use and cessation education and supplemental care procedures, this course focuses on the development of more complex dental hygiene treatment plans and working with patients with special needs.		
DHY232 CLINICAL DENTAL HYG II <i>Pre-Req DHY134</i>	4	12
Supervised 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.		
DHY233 DENTAL HYGIENE THEO III <i>Pre-Req DHY231</i> <i>Co-Req DHY234</i>	2	2
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.		
DHY234 CLINICAL DENTAL HYG III <i>Pre-Req DHY232</i>	5	15
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.		

Computer Science and Engineering Technology

	Credit Hours	Contact Hours
ECA122 COMPUTER APPL FOR TECH PROF	3	4
This course 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, MS-DOS, the Windows networking environment and a variety of software application packages used to solve scientific, business and engineering technology problems.		
ECA127 PROGRAMMING LOGIC AND PROB SOLV	3	4
This course introduces 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.		
ECA128 VISUAL BASIC PROGRAMMING <i>Pre-Req ECA127 or CAP121</i>	3	4
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 MCSD test 70-306: Developing and Implementing Windows-based Applications with 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.		
ECA129 CRYPTOGRAPHY <i>Pre-Req ECA127 or CAP121, MTH121</i>	3	4
Communication techniques over non-secure channels are presented. Mathematics and computer science concepts are used to design and program encryption/decryption systems. Kerchoff's Principle for modern cryptography is stressed. Through a set of hands-on exercises, the student will become familiar with symmetric key and public key encryption/decryption methods.		
ECA130 SOFTWARE VULNERABILITIES <i>Pre-Req ECA127, EET131, EET141</i>	3	4
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.		

	Credit Hours	Contact Hours
ECA131 MS WINDOWS XP AND 2003 SERVER <i>Pre-Req EET131, EET141</i>	3	4
Course includes installing and administering the Windows XP Professional and Windows 2003 Server Operating Systems. It also covers security issues, installation troubleshooting, and desktop configuration.		
ECA132 HELP DESK CONCEPTS	3	4
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.		
ECA133 COMPUTER USER SUPPORT	3	4
This course addresses topics that help-desk analysts will use on a daily basis. Course includes computer user support, customer service skills, troubleshooting skills, common support problems, help desk operations, and support management.		
ECA222 C++ PROGRAMMING <i>Pre-Req ECA127</i>	3	4
Focuses on computer concepts, control structures, functions, arrays, pointers and strings found in C++. 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.		
ECA223 JAVA PROGRAMMING <i>Pre-Req ECA127 or CAP121</i>	3	4
Provides students with a solid foundation in the Java programming language. Students will be able to write application programs to access data, solve problems and display graphical output windows. Students will become familiar with JAVA data types, control structures, and classes. Students will create applets to add animation to web pages.		
ECA224 ADVANCED C++ PROGRAMMING <i>Pre-Req ECA222</i>	3	4
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.		

	Credit Hours	Contact Hours
ECA225 CLIENT SIDE SCRIPTING <i>Pre-Req ECA228</i>	3	4
Upon completion of this course students will be able to develop interactive web sites using JavaScript. Various assignments enhance the student's ability in JavaScript, including interaction with the browser, regular expressions and form validation.		
ECA226 WINDOWS PROGRAMMING WITH C# <i>Pre-Req ECA127</i>	3	4
In this course the student will learn to design, create, test, deploy, maintain and support desktop software applications using Microsoft Visual C#.Net2003. The student will complete a series of hands-on lab exercises using Visual C#. This class will help prepare the student to take MCSD certification exam Windows-Based Application with Microsoft Visual C#.Net, Exam 70-316.		
ECA227 ASSEMBLY LANGUAGE <i>Pre-Req ECA222 or CAP235, ECA223 or CAP241</i>	3	4
The relationship between software languages and computer architecture is presented. This course examines assemblers, specification and translation of programming languages, linkers and loaders, block structure languages, parameter passing mechanisms and a comparison of programming languages.		
ECA228 INTERNET/INTRANET DES AND DEV <i>Pre-Req ECA122</i>	3	4
Upon completion of this course, the student will be able to develop a basic Internet/Intranet web site. Students learn the basics of web design and client side mark up languages including HTML, CSS, XHTML, and XML.		
ECA229 MICROSOFT SERVER SIDE SCRIPTING <i>Pre-Req ECA228</i>	3	4
This course covers server side programming with ASP/ASP.Net. Students will learn to connect to a database, add, update, and delete from the database, create sessions and using ASP.Net to create web pages with HTML server controls and web server controls.		
ECA230 JAVA WEB DATABASE PROGRAMMING <i>Pre-Req ECA223</i>	3	4
Examines the design and use of relational databases. Normalization rules, graphic user interfaces, JDBC, SQL, Java Server Pages, Java Servlets and relational database management systems are principal topics. A collection of hands-on labs illustrates the use of web-database technologies.		

	Credit Hours	Contact Hours
ECA233 ANALYZING SFTWRE REQ AND DEV SOL 3 5 <i>Pre-Req ECA128 or ECA236 or CAP126 or ECA222 or ECA227 or ECA229 or CAP223 or CAP224 or CAP127 or ECA223</i> Presents the System Development Life Cycle methodology to investigate, analyze, design and implement a computer software solution to a simulated or actual real-world business problem. Students working in small groups will perform the preliminary investigation for a systems request, perform fact finding to create the System Requirements Document, use logical modeling tools (DFD,Flowchart,Decision Tables), use input and output design principles, and application development tools. Student will be required to present and demonstrate their completed and functional Systems Project.This course has a pre-requisite: Completion of two software development language courses.		
ECA234 CFML TOOLS 3 4 <i>Pre-Req ECA228</i> <i>Co-Req IMT126</i> Upon completion of this course the student will be able to develop server-side web pages using both HTML and Flash as a user interface. Topics include viewing, adding, editing and deleting from a database, sending and receiving email and performing basic file manipulation with cold fusion. Creating and utilizing components and web services with cold fusion and importing XML with Flash will also be covered.		
ECA236 OPEN SOURCE SERVER SIDE SCRIPT 3 4 <i>Pre-Req ECA228 or CAP243</i> Students learn to develop server-side scripts with PHP including developing various web applications and connecting to a MySQL database. Course also covers development and design of the MySQL database.		
ECA237 WEB SERVICES WITH C# 3 4 <i>Pre-Req ECA127</i> Students gain a deeper understanding of web services using C#.Net. Course enlightens the student on C# syntax and ASP.Net. Also focuses on developing and implementing web services in C# and SOAP.		
ECA239 ADVANCED JAVA PROGRAMMING 3 4 <i>Pre-Req ECA223</i> 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.		

	Credit Hours	Contact Hours
ECA240 ADV GAMING AND SIMULAT TOPICS 3 4 <i>Pre-Req ECA222</i> <i>Co-Req ECA241</i> 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.		
ECA241 3D GAME PROGRAMMING 3 4 <i>Pre-Req ECA222 or IMT227</i> This course focus on 3D game programming. The student will learn the essentials of 3D game programming, including basic algorithms, texture mapping basics, 3D math, lighting, etc.		
ECA242 INSTRUCTIONAL DEV W/AUTHORWARE 3 4 <i>Pre-Req IMT126, ECA251</i> This course will focus on design and development of computer-based and web-based training using Flash and Authorware. Design, layout, script writing, flow, testing and usability will be covered.		
ECA243 GRAPHICS FOR ILLUSTRATION 3 3 <i>Pre-Req IMT122</i> Students will learn how to develop basic illustrations and line art using Adobe Illustrator. Labs focus on drawing computer devices, industrial devices and medical illustrations.		
ECA244 MS WINDOWS SERVER 2003 NTWKIN 3 4 <i>Pre-Req EET131, EET141</i> Course includes planning, implementing, managing, and maintaining a Windows 2003 Network Infrastructure. Topics include DHCP, DNS, routing and remote access, TCP/IP addressing, and networking monitoring.		
ECA245 DES SEC FOR WIN 2003 NETWORK 3 4 <i>Pre-Req ECA244</i> Course covers the topics required to gather and analyze business requirements for a secure network infrastructure and design. Students design a solution that meets those requirements (costs, security, hardware, software, licensing and resources) using a Windows 2003 network infrastructure.		
ECA246 ADM, IMPL AND DES DIRECTORY SERV 3 4 <i>Pre-Req ECA244 or ECA251 or EET251</i> Course thoroughly covers both the logical and physical structures of Active Directory and Exchange Server. Some of the topics covered and accomplished during lecture time and lab time are the installation of Exchange Server, Active Directory, DNS, and dhcp. Students create and maintain user accounts and group policies on their own domains.		

	Credit Hours	Contact Hours
ECA247 ADVANCE XML AND WEB SERVICES	3	4
<i>Pre-Req ECA229</i>		
Upon completion of this advanced course students will have a better understanding of XML, XSLT, SOAP, and WSDL.ASP.Net is also taken to the next level ranging from advanced database techniques, converting database data to XML and back, concluding with creating and consuming web services.		
ECA248 CITRIX METAFRAME	3	4
<i>Pre-Req ECA244 or EET252</i>		
This course provides the necessary foundation to utilize Citrix MetaFrame products. It will cover the installation and administration of Citrix MetaFrame and Citrix ICA clients in a variety of network environments. Topics will include using the Citrix Management Console, managing licensing and administering MetaFrame servers.		
ECA249 CCNA PHASES 1 AND 2	4	5
<i>Pre-Req EET141</i>		
Course covers Lans, the OSI model, media, protocols, routing, WANS, Cisco router configuration, IOS images, and network troubleshooting in a Cisco Systems lab environment.		
ECA250 CCNA PHASES 3 AND 4	4	5
<i>Pre-Req ECA249</i>		
This course will cover switching, virtual LANS (VLAN), LAN design, IGRP, Novell IPX, network management, WAN design, ISDN, and frame relays in a cisco system lab environment.		
ECA252 DATA MINING AND DATA WARHSNG	3	4
<i>Pre-Req ECA253</i>		
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.		
ECA253 DATA MODEL AND DATABASE DESGN	3	4
<i>Pre-Req ECA122</i>		
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.		

ECA254 UNIX/LINUX SHELL SCRIPTING	3	4
<i>Pre-Req EET257</i>		
Students learn how to combine standard unix commands and utilities together in Bourne style shell script 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 language (LateX and HTML), perl, awk, and sed scripting.		
ECA255 MICROSOFT PROJECT TOOLS	3	4
<i>Pre-Req CA122</i>		
This course focuses on Microsoft tools such as Microsoft Project and Visio. Students will complete a major project, and will examine and analyze all elements of these projects. Upon completion, students will be able to use these tools to manage and develop processes such as planning, budgeting, and applications design and delivery.		

Early Childhood Education

ECE121 INTRO EARLY CHILDHOOD ED	3	3
<i>Pre-Req ENG101</i>		
This course introduces the field of early childhood education and child care history, philosophies, goals, practices and professional affiliation; explores the range of prekindergarten programs, as well as examines career opportunities, qualification, and the role of the educator/caregiver. Observation and recording of infant/child behavior are also introduced. Fifteen observations hours are required.		
ECE122 CURRICULUM DESIGN AND INST	3	3
<i>Pre-Req ECE121</i>		
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 field observation hours required.		
ECE123 HEALTH AND NUTRITION	3	3
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 observations hours required.		

	Credit Hours	Contact Hours
ECE124 INFANT TODDLER CURRICULUM <i>Pre-Req PSY125</i>	2	2
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 are required.		
ECE125 CHILD WITH PHY EXCEPTIONALITIES	3	3
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 field observation hours are required.		
ECE126 EDUCATIONAL TECHNOLOGY	3	3
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.		
ECE221 LANGUAGE ARTS <i>Pre-Req ECE122</i>	3	3
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 field observation hours required.		
ECE222 CREATIVE MAT/GUIDE PLAY <i>Pre-Req ECE122</i>	3	3
Examines a comprehensive, caring, and developmentally-appropriate approach to guiding children's personal and social development. Emphasis is placed on a guidance approach to discipline. Designing and applying developmentally appropriate creative materials and activities are explored. Ten field observation hours required.		
ECE223 COMMUNITY AND FAM BASED PR <i>Pre-Req ECE121</i>	3	3
An examination of community and family-based early childhood programs: Head Start, Even Start and public/special needs preschool. 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 are studied and related to use in community/family programs. Five field observation hours required.

ECE224
EARLY CHILDHOOD PROG ADM
Pre-Req ECE121

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.

ECE225
THE EXCEPTIONAL CHILD
Pre-Req ECE221, ECE222

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 field observation hours required.

ECE226
WRAP-AROUND PROGRAMS
Pre-Req ECE121

An examination of public school-age programs designed to "wrap around" the child: before and after school care, summer care, sick child care and other emerging programs. Five field observation hours required.

ECE227
PRACTICUM
Pre-Req ECE222

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.

ECE228
PHONICS FOR YOUNG CHILDREN
Pre-Req ECE221

Explores the theory and role of phonics and phonemics awareness as well as current research regarding phonics instruction. Five observation hours are required.

ECE229
EDUCATIONAL PSYCHOLOGY
Pre-Req ECE221

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 are required.

	Credit Hours	Contact Hours
ECE230		
CHILD WITH SOCIAL-EMOT EXCEPT	3	3
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 field observation hours are required.		

Electrical/Electronic Engineering Technology

EET120		
DC CIRCUIT ANALYSIS	4	5
<i>Co-Req MTH121</i>		
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.		
EET122		
AC CIRCUIT ANALYSIS	4	5
<i>Pre-Req EET120</i>		
Alternating current (AC) circuit analysis and instrumentation. Topics include: phasor analysis, network theorems, power, resonance, pulse analysis, transformers and instrumentation.		
EET123		
ELECTRONIC DEVICES AND CIRCUITS	4	5
<i>Pre-Req EET122</i>		
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.		
EET125		
CIRCUITS MANUFAC TECHNIQUES	1	2
<i>Pre-Req EET120</i>		
Safety in the shop. Electrical and mechanical shop practice including use of hand tools, soldering techniques, solderless terminations, wire preparations, wiring techniques and parts ordering.		
EET126		
ELECTRICAL MACHINES	4	5
<i>Pre-Req EET120, EET122, PHY121</i>		
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.		

EET128		
NEC AND ELECTRICAL SYS DES	2	3
<i>Pre-Req EET122</i>		
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 size, selection of circuit over-current protection, grounding, lighting design, transformer connections (both single and three-phase), short circuit analysis, and other related subject material. Students are introduced to power factor correction, power quality, stand-by generation, various illumination sources and starting circuits.		
EET129		
OPTICS	2	3
<i>Pre-Req PHY121 or PHY101</i>		
This course is complementary physics for student 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.		
EET131		
PC UPGRADING AND MAINTENANCE	3	4
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 PCs in a lab environment. Hardware topics include: system board, microprocessors, busses, memory, disk drives, and power supplies.		
EET141		
INTRO TO COMPUTER NETWORKING	3	4
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.		
EET142		
LIGHT DES, APP AND ELECL ELEM I	2	4
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 and tomorrow's illumination systems.		

	Credit Hours	Contact Hours
EET143 LIGHT DES, APP AND ELEC ELEM II	3	3
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.		
EET225 DIGITAL COMM AND SYS ANALY	3	6
<i>Pre-Req EET 248</i> <i>Co-Req EET262</i>		
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).		
EET226 TRANSMISSION AND DISTRIBUTION	3	4
<i>Pre-Req EET122</i>		
This course encompasses power transmissions and distribution systems, components and analysis. Field trips to appropriate sites comprise the laboratory requirement.		
EET227 PLCs AND INDUSTRIAL CONTROLS I	3	4
<i>Pre-Req EET120, EET126</i>		
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.		
EET228 PLCs AND INDUSTRIAL CONTROLS II	3	4
<i>Pre-Req EET227</i>		
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.		

	Credit Hours	Contact Hours
EET230 ELECTRONIC CIRCUITS I	3	4
<i>Pre-Req EET123</i>		
A study of field effect transistors, h-parameters, device equivalent circuits, small signal analysis, multistage amplification, decibels, frequency response and large signal amplifiers.		
EET231 ELECTRONIC CIRCUITS II	3	4
<i>Pre-Req EET230</i>		
A study of power amplifier design, heat sinking, differential amplifiers, operational amplifiers, IC fundamentals, feedback and oscillator circuits.		
EET232 INDUSTRIAL ELECTRONICS	3	4
<i>Pre-Req EET123</i>		
The course consists of industrial control circuits, such as ladder logic, discrete programmable logic, single phrase control, three phrase rectification and electronic motor speed control with supporting laboratory exercises.		
EET233 TECH PROJECT ELECTRICAL	1	2
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.		
EET235 TECH PROJECT ELECTRONIC	1	2
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.		
EET242 MS SQL SERVER ADMIN	3	4
<i>Pre-Req EET252 or ECA131 or EET251</i>		
This course is designed to provide the student with the concepts and hands-on experience with Microsoft SQL Server databases. The primary focus is on learning SQL server from the Database Administration perspective. Upon completion, the student will have attained at least a basic administration skill level with SQL Server database.		

	Credit Hours	Contact Hours
EET244 ELECC TELECOMMUNICATIONS <i>Co-Req EET262</i> A course dealing with telecommunications hardware and software. Both wired and wireless topics are covered, along with the software used to implement such systems.	3	4
EET245 TECH PROJ-ELECC TELECOM 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.	3	5
EET246 TECH PROJ - COMP NETWKG 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.	3	5
EET248 WORKSTATION INTERFACING <i>Pre-Req EET123</i> <i>Co-Req EET262</i> A study of digital circuitry and current operating systems for port management and personal computer bus architecture. The course includes digital and analog interfacing using serial, parallel ports, and various current interface ports.	3	5
EET250 UNIX/LINUX SYSTEM ADMIN <i>Pre-Req EET257 or ECA221</i> 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 ethics, process control, file systems, log files. During the lab, the student will install Linux on a personal harddrive and be administrator of their personal system. Students will add users, schedule cron jobs, add filesystems to their system.	3	4
EET251 UNIX/LINUX NETWORK ADMINISTRAT <i>Pre-Req EET257 or ECA221</i> This course addresses administration and configuration of network server software found on the Unix and/or Linux operating systems. Server topics include: openssh, httpd, named, routed, sendmail, postfix, etc. Security topics include: PAM, Kerberos, tripwire, tiger, etc. Students will install a Linux server on their personal harddrives, setup various types of network servers. Many labs will require students to work together to test each other's server configurations.	3	4

	Credit Hours	Contact Hours
EET257 UNIX/LINUX OPERATING ENVIR <i>Pre-Req ECA122</i> 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 windows, remote machine access using ssh&ftp, compiling C programs under Unix, and formation of makefiles and the make command.	3	4
EET258 DTA ENCRYPTION AND FIREWALL TECH <i>Pre-Req ECA244 or EET252 or ECA251</i> 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.	3	4
EET259 WEB SERVER ADMINISTRATION <i>Pre-Req EET252, EET257</i> This course provides the essentials for designing, configuring and implementing Web Servers. The focus will be on the Apache Web Server, IIS and other related web server technology.	3	4
EET260 COMPUTER FORENSICS <i>Pre-Req ECA127 or CAP121, EET131</i> Computer crime, programming in the network monitoring platform, trap and trace techniques and patch level enumeration will be the focus of this course. Detailed descriptions and technology related to response team are presented.	3	4
EET261 ADVANCED SECURITY TECHNIQUES <i>Pre-Req EET131, EET141, ECA129, ECA130</i> 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.	3	5
EET262 PULSE AND DIGITAL INTEGRATED CIR <i>Pre-Req EET123</i> <i>Co-Req ECA122</i> 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.	4	5

Emergency Medical Services

EMS121

BASIC MEDICAL TRAINING (EMT) 5 8
Pre-Req EMS122

This intense course covers all emergency medical techniques under the new 1994 U.S.D.O.T. curriculum approved by the Ohio E.M.S. Board to be within the responsibilities of the EMT-B providing emergency care with an ambulance service. The course consists of 120 hours of classroom instruction and 10 hours of clinical experience in a hospital emergency room. This course meets the requirements established by the U.S.D.O.T. for the 1994 EMT-Basic Standard Curriculum.

EMS220

PARAMEDIC I/SEMINAR 10 17
Pre-Req BIO101 or BIO127 Pre-Req EMS121

This course provides theory and skills at the EMT-Paramedic level for managing traumatic and medical emergencies including patient assessment, medico-legal issues, airway management, fluid therapy and pharmacology, geriatric care and management of respiratory and cardiac emergencies including rhythm interpretation and dysrhythmia treatment modalities. In-hospital training and infield internship are included.

EMS221

PARAMEDIC II/SEMINAR 10 24

This course is a continuation of Paramedic I and includes theory and skills in the assessment and management of cardiac emergencies including rhythm interpretation and dysrhythmia treatment modalities as well as assessment and advanced management of trauma. Also included is management of obstetrical, neonatal and pediatric emergencies. In-hospital training and infield internship are included.

EMS222

PARAMEDIC III/SEMINAR 4 16

Successful completion of this course provide certification in Advanced Cardiac Life Support, Basic Trauma Life Support and Pediatric Advanced Life Support as well as additional critical care transport skills. This course is designed to prepare the student for National Registry Testing.

English

ENG101

INTRODUCTION TO WRITING 3 3
Pre-Req CAL105

An introductory writing course stressing effective essay composition skills (e.g. essay structure and development and editing and revision skills) while applying the basic rules of grammar and mechanics.

ENG102

RDG FOR CRITICAL ANALYSIS 3 3
Pre-Req CAL101

Reading for Critical Analysis teaches critical comprehension and analysis of technical reading material. The course includes advanced application of critical reading and thinking skills.

ENG122

COMMUNICATION THEORY 3 3

Examines the process of communication and general semantics. Propaganda techniques and their abuses are explored, along with logical thinking methods. Application of communication principles in a problem-solving exercise emphasizes win/win solutions.

ENG123

BUSINESS COMMUNICATION 3 3
Pre-Req ENG124

Teaches application of various forms of business communication, such as letters, memos, resumes, instructions, abstracts/summaries and a simulated business presentation with emphasis on research, oral reports and graphics.

ENG124

COLLEGE COMPOSITION 3 3
Pre-Req ENG101

Students learn to write effective papers based on reading and discussing essays after a review of essay development and organization, grammar, and punctuation. Emphasis is on the process of prewriting, writing and revising to achieve clarity and development. A research report requires APA or MLA documentation.

ENG221

TECHNICAL REPORT WRITING 3 3
Pre-Req ENG124

Course stresses clarity, logic and appropriate organization in informal and formal technical reports. An oral presentation and/or a proposal may be required.

ENG222

MED TECH REPORT WRITING 3 3
Pre-Req ENG124

Co-Req HIT223

Health information technology students develop skills in various kinds of technical communications used in their work, such as letters, memos, instructions, short reports, abstracts, summaries and proposals.

ENG224

COMPOSITION AND LITERATURE 3 3
Pre-Req ENG124

Includes literary selections from fiction, poetry and drama. Students read, discuss, analyze and write critical interpretations of representative works.

ENG226
MASTER STUDENT 3 3
Designed to aid students in gaining skills needed for constructive and efficient learning both in college and other life settings. Topics include time management, study and test-taking techniques, communication and relationship-building skills, library use and a variety of techniques for personal use.

ENG227
WRITING FOR MEDIA 3 3
This course covers writing for the following media: Web, broadcast, and scripting. Students examine basic issues of design and are introduced to stylistic and content requirements involved with creating media-specific text.

Environmental, Health and Safety Technology

ENV121
REGULATIONS AND COMPLIANCE 3 3
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.

ENV221
OSHA - 40 HR - HAZWOPER 2 3
(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.

ENV222
INDUST PROCES AND POLUTION CNTRL 3 4
Pre-Req CHM121, MTH121

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 be covered.

ENV223
BASIC GEOLOGY/HYDROLOGY 3 4
Pre-Req MTH121

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.

ENV224
AIR SAMPLING-ANA AND CONTR 3 4
Pre-Req CHM121, MTH222

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.

ENV225
SOLID AND HAZ WASTE SMPLG 3 4
Pre-Req CHM122, ENV121, ENV221, MTH222

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.

ENV226
WATER SAMPLING,ANAL,CONT 3 4
Pre-Req CHM122, ENV223, MTH222

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.

ENV228
HEALTH AND SAFETY 3 4
Pre-Req ENV121

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. Students who successfully complete the course may receive 30-hr Occupational, Safety and Health card for General Industry.

ENV230

OSHA 8-HR HAZWOPER REFRESHER 1 1

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.

ENV236

ENV HLTH AND SAFETY SPEC PROJECT 3 4 *Pre-Req ECA122,ENV121,ENV221*

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.

Electrical Maintenance Technology

EST129

SWITCHGEAR, TRANS, CONTROLS 2 3 *Pre-Req EET120*

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.

EST130

ELECTRICAL CIRCUITS/DEV 4 5 *Pre-Req MTH101 or MTH121*

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.

EST221

ELECTRONIC TBLSHOOTING 3 4 *Pre-Req EET120, EET262*

Course covers generic troubleshooting procedures, including: electronic problems, system troubleshooting, live-circuit testing, DC troubleshooting, power supply repair, signal tracing, semiconductor in-circuit testing,

testing live analog circuits, RF circuit troubleshooting, pulse circuit troubleshooting, digital test techniques, troubleshooting computer circuits, dead circuit testing, replacing failed components, preventive maintenance, and power and motor circuit troubleshooting.

Engineering Technology Special Courses

ETD121

ENGINEERING TECHNOLOGY SEMINAR 1 2

This course makes the student aware of the college, the division, and the engineering programs. This course is divided into two major segments. The first segment includes resource utilization, study and test-taking skills, learning styles, goal setting, time management, engineering speakers, career services, advising, changing majors, scheduling, interpersonal skills, and communication skills. The second segment emphasizes basic engineering and math skills and includes properties of right triangles, basic trigonometric functions, basic linear equations, use of calculators, unit conversation, fractions, geometry and technical report writing.

ETD201

ENG INDEPENDENT STUDY 1 10

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.

ETD202

ENG INDEPENDENT STUDY 2 20

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.

ETD203

ENG INDEPENDENT STUDY 3 30

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.

ETD204

ENG INDEPENDENT STUDY 4 40

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.

ETD222

ENGINEERING CO-OP

2	20
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Co-op opportunities are available to students enrolled in engineering technology. Students may contact their faculty advisors or Career Services for more information.

ETD223

ENGINEERING CO-OP

3	30
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Co-op opportunities are available to students enrolled in engineering technology. Students may contact their faculty advisors or Career Services for more information.

ETD224

ENGINEERING CO-OP

4	40
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Co-op opportunities are available to students enrolled in engineering technology. Students may contact their faculty advisors or Career Services for more information.

Electrical Power Utility Technology

EUT121

OVERHEAD LINE TECHNOLOGY I

6	10
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Provides the knowledge and skill to perform work on secondary voltage circuits; understanding of the techniques used to install transmission support systems, transformers and install anchors safely and efficiently with concentration on the installation of services, street lighting and secondary circuits. Included are advanced training pertaining to the various transmission support system framing techniques and guying methods. An overview of transmission and distribution of electrical systems, Occupational Safety and Health Administration (OSHA) and rigging safety awareness requirements will be included in this course.

EUT122

OVERHEAD LINE TECHNOLOGY II

6	10
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Pre-Req EUT121

Provides the knowledge to safely and properly install three phase primary conductors; to operate transmission line installation equipment; to safely install and operate line fuses, reclosers, transformer power banks, capacitors and line voltage regulators; to identify, install and maintain underground residential distribution secondary equipment. The safe and proper methods to install box pads, single-phase transformers, primary elbows and terminators, and safety requirements will be included throughout the course of instruction.

EUT123

SUBSTATION TECHNOLOGY I

6	10
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Provides the knowledge and skills to perform maintenance in electrical substation and switchyards; understand and apply the proper techniques to operate power, powder and hydraulic actuated tools, as applied to conduit forming and cable tray layouts. Included is

advanced training in the operation of substation ground maintenance vehicles; rigging and construction of substation and switchyard facilities. Occupational Safety and Health Administration (OSHA) and rigging safety awareness requirements will be included in this course.

EUT124

SUBSTATION TECHNOLOGY II

6	10
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Provides the knowledge and skill to safely perform maintenance in electrical substation and switchyards; understand and apply the proper cable pulling/bus work techniques; installation of substation conductors/wire, switches and grounding techniques. Included is advanced electrical skills training, as applicable to the use and installation of batteries, fuses, transformers, regulators/reclosers, circuit breakers, and capacitors within the substation. The proper lockout/tagout techniques and principle will be included in this course.

EUT221

OVERHEAD LINE TECHNOLOGY III

6	10
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Pre-Req EUT122

Provides the knowledge and skill to identify, install and maintain primary underground residential distribution (URD) equipment; knowledge pertaining to the different styles of sub-transmission support structures, with instruction on the techniques and proper use of hot-line tools to work sub-transmission and distribution structures when laying out conductors and changing various insulators; knowledge and skill to safely perform rubber gloving assignments using the insulate and isolate techniques. Various methods of troubleshooting URD primary and secondary circuits are discussed and demonstrated. Students will perform various tasks, while working on an energized three-phase circuit under controlled conditions. Applicable safety requirements will be taught and stressed throughout the course of instruction.

EUT222

OVERHEAD LINE TECH IV

7	12
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Pre-Req EUT221

Provides the skills to safely climb transmission support towers and H-structures to achieve the qualified status. Upon qualification, the student will obtain the basic skills to perform intermediate tasks while aloft on these pertinent structures. The student will gain an understanding of substation equipment and one line drawings. Emphasis will be placed on recognizing energized equipment, minimum approach distances and substation safety. At the conclusion of the course, the student will be qualified to enter a substation. Included in this course of instruction are: Lockout/Tagout, Master Drive, Topical Safety, Comprehensive Skills Review and a Safety Fair.

EUT224

SUBSTATION TECHNOLOGY III

6 10

Pre-Req EUT124

The outcome of this intermediate course is electrical skills training, as applicable to the use and installation/maintenance of batteries, fuses, transformers, regulators according to Substation Preferred Practices. It also provides the knowledge and skill to safely perform maintenance in electrical substation and switchyards; understand and apply the proper cable pulling/bus work techniques; installation of substation conductors/wire, switches and grounding techniques. An in-depth study and practice of lockout-tagout procedures is applied. The daily maintenance procedures are honed for substation power transformers; such as TTR testing, TCG/O2 testing, oil dielectric testing DGA sampling according to Substation Practices. Battery Impedance Testing is also included in this course.

EUT225

SUBSTATION TECHNOLOGY IV

7 12

This course provides advanced knowledge and skills to safely perform high level-maintenance in electrical substation and switchyards; understand and apply the proper cable pulling/bus work techniques; installation of substation conductors/wire, switches and grounding techniques. Included are advanced electrical skills training, as applicable to the use and installation of batteries, fuses, transformers, regulators/reclosers, circuit breakers, and capacitors within-depth study of fault/load interrupting equipment is accomplished. Complete inspection of oil circuit breakers; which includes, circuit profilers training, circuit breaker control schemes, circuit breaker time travel characteristics and analysis. All above mentioned functions are performed according to the Substation Preferred Practices.

Financial Services Technology

FIN122

PRINCIPLES OF FINANCE

4 4

Pre-Req ACC122 or ACC132, ACC127

This is an exit-level course designed for accounting and finance majors. Topics include 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.

FIN123

FUND FINANCIAL SERVICES

4 4

Pre-Req ENG102

Co-Req BUS123

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 tech-

niques of those services are addressed from two perspectives: (1) a professional occupation and (2) an individual developing and implementing their own long-range 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.

FIN221

INVESTMENT AND SECURITIES

4 4

Pre-Req ACC122 or ACC132

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, make trades and review and analyze their account activities.

FIN222

RETIREMENT PLAN/EMPLOYEE

3 4

Pre-Req ACC122 or ACC132

This course studies the fundamentals of employee benefits (including pensions and deferred compensation, group life and health insurance, Social Security, Medicare, and other fringe benefits) and the basics of the retirement planning process. Upon successful completion of this course, the student should understand the fundamental tools and techniques used in retirement and fringe benefit plans.

FIN223

ESTATE AND INCOME TAX PLAN

3 4

Pre-Req ACC124

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.

	Credit Hours	Contact Hours
FIN224 INSURANCE PLANNING	3	4
<i>Pre-Req FIN123</i>		
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 loss due to natural catastrophes and disasters. Upon completion, the student should be able to select the most appropriate insurance program for themselves and their families.		
FIN225 FIN SERVICES CASES/PRACT	3	4
<i>Pre-Req FIN221, FIN224, ENG123, CAP120, ACC127</i>		
<i>Co-Req FIN223, FIN222</i>		
This course provides practical experience in six areas of financial services (fundamentals of financial planning, insurance, investments, income tax planning, retirement planning and employee benefits, and estate planning). Upon successful completion of this course, the student should be able to apply the fundamental tools and techniques of financial services to various realistic problems and cases.		
FIN226 CURRENT FIN SERVICE TOPICS I	3	3
<i>Pre-Req FIN121, FIN221</i>		
This course addresses current topics in financial services, including those covered in the Services VI examination. This course provides students with a clear understanding and insight of the financial markets, investment risks and policies. It is also intended to familiarize the students with investment companies, taxation and customer accounts, variable contracts, retirement planning and securities including regulation. Upon completion of this course, students should be prepared to sit for the Series VI examination.		

Fire Science Technology

FST121 INTRO TO FIRE SCIENCE	2	2
A study of the organizational procedures of the fire science service including the structure and function of battalion and company as components of municipal organizations and basic fire tactics. Discussion topics include the basic history of fire science, career options, personnel management and training, fire equipment and apparatus, communication, terminology, records and reports, insurance rating systems and the law as it pertains to the fire service.		

FST122 FIRE HYDRAULICS	3	3
A study of basic hydraulic theory making use of basic laws of mathematics. Covers drafting of water, velocity and discharge, friction loss, engine and nozzle pressure, fire streams, pressure losses, municipal and industrial water supplies, stand pipes and sprinklers, flow and pump testing and applications in fire science.		
FST123 FIRE DETECTION AND SUP SYS	3	3
The design and operation of basic protection systems. Includes water distribution, detection, alarm and watchman services, protection systems for special hazards, a detailed examination of carbon dioxide, dry chemical, foam and water spray systems.		
FST124 FIRE PREVENT AND SAFETY CD	3	3
The study of inspection techniques and procedures along with the history and development of codes. Emphasis is placed on the nature and scope of legal statutes and related codes in fire prevention control. How to perform building inspections, set up a fire prevention bureau including duties and suggested guidelines on a local, state, and national scope. Recognition and correction of fire hazards, public relations and enforcement of codes.		
FST125 BLDG CONSTRUCT FOR FIRE	2	2
The study of fundamentals of building construction as related to fire protection, codes, laws, hazards and fire ratings. Design and materials as applied to fire resistance.		
FST126 ENVIRONMENTAL SCIENCE	3	3
This course focuses on water and air pollution, heat, energy, pesticides and plastics. Helps the firefighter better understand the danger posed by chemicals encountered in fighting fires. Explains dangers of new chemicals and materials in today's changing world.		

FST128 FIREFIGHTER 1A	2	3
This is the Firefighter 1A, 36 hour, Volunteer course. This course provides the training, knowledge, and skills required to become a state certified firefighter trained to be Volunteer Firefighter level. Upon completion of this course the student must pass a State of Ohio test to become certified. This course can be used as the first step in a three step process in becoming a full-time professional firefighter trained to the Firefighter I and II level.		

	Credit Hours	Contact Hours
FST129 FIREFIGHTER 1C-1	5	8
This is the Firefighter 1C-1, Level I 120 hour course. This course provides the training, knowledge, and skills required to become a state certified firefighter trained to the Firefighter I level. Upon completion of this course the student must pass a State of Ohio test to become certified. This course can be used as the first step in a two step process in becoming a full-time professional firefighter trained to the Firefighter I and II level.		
FST221 COMMAND TACTICS AND STRAT	3	3
Techniques and procedures of firefighting are studied, with emphasis on the firefighter's role as an individual and as a member of a firefighting team. Included are the methods of extinguishing fires, rescue procedures, salvage and prevention of rekindling. Group and command operations include pre-planning of firefighting operations, size-up, employment of personnel and equipment, and post mortem.		
FST222 MANAGEMENT IN FIRE	3	3
Focus is on the universal concepts and principles of modern management theory within the framework of a fire service environment. Overview of the fire service officer's need for self-development in the face of increasingly complex functions, and challenges the fire officer faces. An exploration of organizational principles with emphasis on fire department organization including a study of the history, types, methods and principles of department organization, both formal and informal, line and staff. Special emphasis will be placed on supervisory responsibilities, functions and skills.		
FST223 FIRE INVESTIGATIONS MTHD	3	3
An analysis of the principles of fire investigation, arson laws, interrogation of witnesses, applications of photography and preservation of evidence. Preparation of reports and adjustments of insured losses will also be included. Arson will be discussed including the nature of fire, point of origin, development of evidence, interview techniques, motives and court testimony.		
FST224 LGL ASPECTS OF FIRE SERV	2	2
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.		
FST225 HAZARDOUS MATERIALS	3	3
In-depth study of chemical characteristics and reactions related to the storage, transportation, and handling of hazardous materials such as flammable liquids, combustible solids, oxidizing and corrosive materials,		

and radioactive compounds. Emphasis will be placed on emergency situations, firefighting and control. The study of health hazards will also be included.

FST226 LINE OFFICER LEADERSHIP	3	3
Broad management theory and application of basic strategy and tactics for company officers is the focus of this course.		

FST227 PER TRAINING AND PUBL REL	2	2
An introduction to methods of instruction, applications of audiovisual equipment, testing and evaluation, preparation of materials and lesson plans with an emphasis on organizational training and program planning. This includes the building of goodwill, handling complaints and follow-ups, personal contacts, publicity and promotional efforts.		

FST228 FIREFIGHTER LEVEL 1 AND 2	10	16
This course provides the training, knowledge, and skills required to become a state certified firefighter. Training includes fire behavior incident systems, building construction, personal protective equipment, rescue and extrication, ground ladders, fire cause determination, and fire tactics. The students will become proficient through lecture and hands-on experience using up to date, realistic tools and equipment. Successful completion of this course is required to take the state firefighter's test.		

FST229 FIREFIGHTER 1B Pre-Req FST128	3	5
This is the Firefighter 1B, 84 hour transition course. This course provides the training, knowledge, and skills required to become a state certified firefighter trained to the Firefighter I level. Upon completion of this course the student must pass a State of Ohio test to become certified. This course can be used as a second step in a three step process in becoming a full-time professional firefighter trained to the Firefighter I and II level.		

FST230 FIREFIGHTER 1C-2 Pre-Req FST128 or FST229, FST129	5	8
This is the Firefighter 1C-2, Level II 120 hour course. This course provides the training, knowledge and skills required to become a state certified firefighter trained to the Firefighter II level. Upon completion of this course the student must pass a State of Ohio test to become certified. This course can be used as the final step in a two step process in becoming a full-time professional firefighter trained to the Firefighter I and II level or as a Final step in the three step process in becoming a full-time professional firefighter trained to the Firefighter I and II level.		

General Studies Special Courses

GSD201

GEN INDEPENDENT STUDY 1 10

An independent study may be arranged through the general studies/public service technologies division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for general studies/public service technologies will determine course content, meeting schedules and credit hours.

GSD202

GEN INDEPENDENT STUDY 2 20

An independent study may be arranged through the general studies/public service technologies division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for general studies/public service technologies will determine course content, meeting schedules and credit hours.

GSD203

GEN INDEPENDENT STUDY 3 30

An independent study may be arranged through the general studies/public service technologies division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for general studies/public service technologies will determine course content, meeting schedules and credit hours.

GSD204

GEN INDEPENDENT STUDY 4 40

An independent study may be arranged through the general studies/public service technologies division to satisfy student needs that cannot be satisfied through scheduled courses. The student, faculty advisor and dean for general studies/public service technologies will determine course content, meeting schedules and credit hours.

GSD221 SPECIAL TOPICS 1 1

GSD222 SPECIAL TOPICS 2 2

GSD223 SPECIAL TOPICS 3 3

GSD224 SPECIAL TOPICS 4 4

Health Information Technology

HIT121

INTRO TO HEALTH INFO TECH 4 6

The structure of health care in the United States and an outline of its providers; structure and function of the American Health Information Management Association (AHIMA); accrediting, licensing and certifying in health care; structure and functions of the medical records department; government participation in health care including prospective payment; compilation of medical information throughout the patient's course of treatment

in the health care facility, culminating in a complete health record filed in the medical record department; computerized and manual physicians' record-keeping systems; numbering and filing systems; master patient index; record retention; and storage.

HIT122

ANCIL HLTH RECDS AND REGIST 3 4

Pre-Req HIT121

Structure and function of non-acute care facilities; the medical record professional's function in such facilities; development of ancillary health records; accrediting, licensing and surveying requirements; and trends related to ancillary health facilities. Overview of health registries with emphasis on cancer registry. Students will be spending observation time in the medical record department of an ancillary care facility.

HIT123

MEDICOLEGAL ASPECTS 2 2

Co-Req HIT121

Legal aspects of medical record practice; overview of judicial system and processes; importance of medical record as a legal document and the effect of confidentiality on release of medical information; practice in the release of information function; record retention and destruction of records are studied; current legal issues, ethics and laws are discussed.

HIT124

INTRODUCTION TO CODING 4 6

Pre-Req BIO122 or BIO123, HIT121

Co-Req BIO124

Structure of the ICD-9-CM coding system and its application; practice in coding diagnoses and procedures; study of various nomenclature and classification systems used in the health care field.

HIT221

ADVANCED CODING 3 4

Pre-Req BIO222 or HIT124

In-depth study of CPT-4/NCPS coding system and its applications: ambulatory care coding; practice in coding ICD-9-CM diagnoses and CPT-4 procedures.

HIT222

STATS/DATA RETRIEVAL 3 4

Pre-Req HIT123, HIT124, HIT122

Co-Req HIT224

Vital and public health statistics relating to health record practice; health care facility statistics and statistical reports, including sources and uses of data; data retrieval of clinical information; data display; indexes and registers; abstracting of health information.

	Credit Hours	Contact Hours
HIT223 HIT MANAGEMENT <i>Pre-Req HIT224, HIT222</i> <i>Co-Req ENG222</i> Introduction to the principles of management and the role of the supervisor in management; study of management functions, particularly as they relate to the medical records department; supervisor's role in coordinating goals of the individual, department and organization; study of practical problems in supervision.	3	3
HIT224 HLTHCARE QUALITY IMPROVE <i>Pre-Req HIT123, HIT124, HIT122</i> <i>Co-Req HIT222</i> Quality assessment of both departmental functions and medical care; quality improvement as a facility-wide process; utilization review; risk management; and total quality management.	2	2
HIT226 PROFESSIONAL PR I/SEM I Enables the student to practice technical skills in the following areas: number control; filing and retrieval of master patient index information and patient records; chart assembly and analysis; microfilming; basic ICD-9-CM and CPT-4 coding; and medicolegal and correspondence procedures.	4	9
HIT227 PROFESSIONAL PR II/SEM II Enables the student to practice technical skills in the following areas: ICD-9-CM and CPT-4 coding and DRG assignment; abstracting; indexes, registers and data retrieval; quality assurance, utilization review and risk management. The student reviews job descriptions and job procedures from a supervisory standpoint.	4	9
HIT228 CODING FOR REIMBURSEMENT <i>Pre-Req HIT124</i> This course includes validation of coded clinical information, DRG assignment, APCs, RBRVS and case mix/severity of illness data. Reimbursement methodologies applicable to all health care settings are addressed. Topics include: practice of previously learned principles of coding systems; prospective payment issues; peer review organizations; case mix analysis and indices; third party payers; billing and insurance procedures as they relate to health information management; managed care/capitation; and data quality.	4	6
HIT229 INFO SYS IN HEALTHCARE <i>Pre-Req CAP120, HIT222, HIT224</i> This course presents concepts of computer technology and the tools/techniques for using application software in the health care delivery system. Topics covered include computer concepts (hardware, software); data; informa-	3	4

tion; telecommunications; networks; microcomputer applications; data integrity; image processing; data security; and health information systems.

HIT230 HLTH CARE DELIVERY IN THE US 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.	2	2
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HIT231 CODING PROF PRACTICE EXP/SEMIN <i>Pre-Req HIT124</i> The student is placed in a health care setting for supervised coding experience. This enables the Student to apply technical skills in ICD-9-CM AND CPT coding, APC and DRG assignment and other reimbursement methodologies.	2	6
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Health Technology Special Courses

HTD201 HLTH INDEPENDENT STUDY 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.	1	10
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HTD202 HLTH INDEPENDENT STUDY 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.	2	20
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HTD203 HLTH INDEPENDENT STUDY 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.	3	10
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HTD204 HLTH INDEPENDENT STUDY 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.	4	40
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Heating Ventilation and Air Conditioning Technology

HVC121

HVAC PRINCIPLES I

3 4

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.

HVC122

HVAC PRINCIPLES II

3 4

Co-Req HVC121

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.

HVC123

SHEET METAL LAYOUT I

3 4

This course covers layout and forming of basic sheet metal fittings using drawing equipment and construction paper. Topics include square/round ductwork, tapers, transitions and offsets.

HVC221

HVAC FURNACE COMBUSTION PRINC

2 2

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.

HVC222

HVAC DESIGN AND APPLICATION

3 4

Pre-Req HVC122

The student's understanding of heat transfer will be expanded to encompass application. The principles of thermodynamics, psychrometrics, 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.

HVC223

HVAC SYS OPER AND TRBLSHT- HEAT

3 4

Pre-Req HVC122

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.

HVC224

HVAC SYS OP AND TRBLSHT- COOLING

3 4

Pre-Req HVC122

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 students learns proper system diagnosis and repair procedures.

HVC226

SHEET METAL LAYOUT II

3 4

Pre-Req MST132, HVC123

Covers layout, forming and fabrication of basic sheet metal ductwork fittings and use of equipment to accomplish these tasks. Topics include: the fabrication of square/round sheet metal ductwork, tapers, transitions, and offsets; the development of geometrical elements of structures, their intersections by the radial line, and triangulation methods of sheet metal layout.

HVC227

HVAC FIELD INSTALL TECH AND PROC

4 5

Co-Req HVC122

Laboratory intensive introduction to air conditioning system field installation techniques and procedures.

HVC228

HVAC SYS AIRFLOW AND DUCT SIZING

1 1

Pre-Req MTH101

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.

HVC229

AIR CONDITNING REFRIG CYCLE

1 1

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.

HVC230

HVAC RESIDENTIAL EQUIP SIZING

1 1

An in-depth study of residential structural heat loss-heat gain is presented. Software programs based on the ACCA Manual J are utilized to run heating and cooling loads, select equipment and layout ductwork.

HVC231

HVAC MOTORS AND COMPRESSORS

1 1

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.

	Credit Hours	Contact Hours
HVC232 ADVANCED HVAC APP AND CONTROLS 3 4 <i>Pre-Req HVC222, HVC227</i>		
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.		
HVC233 HVAC BID SPECIFICATION 3 4 <i>Pre-Req HVC222</i>		
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.		
HVC234 HVAC ELECTRICAL SYS AND APPLIC 3 4 <i>Pre-Req MTH101</i> <i>Co-Req HVC121</i>		
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.		
HVC235 REFRIGERATION 3 4		
A basic understanding of mechanical refrigeration from safety to cryogenics is presented. The refrigeration cycle, components, controls, in instrumentation, installation, servicing, and troubleshooting are studied. Various components including the compressor, condensor, filter-dryer, and refrigeration controls are studied in detail		
HVC236 ADV HVAC ELECTRICAL APPLIC 3 4 <i>Pre-Req HVC234</i>		
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.

Inter-Departmental Studies

IDS110 LEADERSHIP CONCEPTS 3 3	
This is the prerequisite course for any and all other Leadership Experience modules. In this course participants learn the basic skills used to effectively interact with others and exert leadership in these interactions. Practical skills include active listening, effective processing, problem solving, negotiating and empowering. This is a team taught course emphasizing experiential techniques.	

IDS111 LEADERSHIP SEMINAR 3 3	
This is a highly participative, experiential course that explores trust and team building, goal setting, change management, conflict resolution and transformation leadership. This seminar encourages self-exploration and growth as major process of influence in leadership.	

IDS201 TRUST AND TEAM BUILDING 1 1 <i>Pre-Req IDS110</i>	
This team-taught course promotes understanding of the importance of trust and team-building to effective leadership, and provides experience with techniques used in both. This highly participative experience involves lectures, analysis of films and works of literature, and group discussion. Its design increases awareness of self and others while teaching how to develop trust and build teams.	

IDS202 GOAL SET/MANAGING SUCCES 1 1 <i>Pre-Req IDS110</i>	
The objectives of this team-taught course are to understand the importance of setting goals to effective leadership and to practice various techniques for goal-setting. Experiential learning exercises instruct participants in both individual and group goal-setting. The course focuses on aspects of confronting failure and managing the success of any group endeavor.	

IDS203 CHANGE,CONFLICT AND TRANSF 1 1 <i>Pre-Req IDS110</i>	
This team-taught course provides an understanding of the skills necessary for promoting change management. Participation deals with the inevitability of change in dynamic individuals and organizations and focuses on the transformation processes used to evolve and improve. Conflict resolution is highlighted as a key process.	

	Credit Hours	Contact Hours
IDS204		
LEADERSHIP VISION	1	1
<i>Pre-Req IDS110</i>		
This team-taught course emphasizes the critical leadership role of vision. Experientially-based methods train participants to integrate knowledge and skills in the process of creating both individual and organizational vision. This model involves participants in the dynamic, creative act of visioning.		

IDS205		
SITUATIONAL LEADERSHIP	1	1
<i>Pre-Req IDS110</i>		
This team-taught course provides tools for adapting leadership behavior to the dynamics of situations. Applications of contingency skills and styles are considered. This experiential course exposes the participants to the challenges facing leaders and addresses the skills needed to succeed in a variety of situations.		

IDS206		
LDSHP DYNAMICS:IND DEV AND INFLU	3	3
<i>Pre-Req ENG124</i>		
This course provides opportunities for the student's development of leadership abilities through personal and interpersonal inquiry and practice. Students will identify skills central to group influence and analyze, interpret and apply those behaviors, including active listening, effective processing, problem solving, negotiating and empowering. Collaborative learning, experiential techniques and workshop format are main features of this course.		

Industrial Engineering Technology

IET223		
COMPUTER NUMERICAL CTRL	4	6
<i>Pre-Req IET123</i>		
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. The CAM section provides an introduction to automated programming through the use of the computer.		

IET228		
INTRO TO ROBOTICS	2	2
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.		

IET270		
DIM METROLOGY AND INSPECT I	3	3
<i>Pre-Req MTH101</i>		
This course provides an in-depth student 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.		

Interactive Media Technology

IMT121 I		
INTERACTIVE MEDIA	3	3
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.		

IMT122		
GRAPHIC ARTS DESIGN	3	4
Topics include effective communication through design from thought to finished process. Upon completion students will be able to effectively use Adobe Photoshop and Adobe Illustrator to create computer graphics.		

IMT123		
CBT DEVELOPMENT W/DIRECTOR	3	4
<i>Pre-Req IMT126</i>		
Focuses on implementation of Macromedia Director and LINGO in the development of computer based training modules. Upon completion of the course, the student will be able to author effective presentations for distance learning, marketing, CD-ROM based and web based training.		

IMT124		
INTERNET DESIGN TOOLS	3	4
<i>Pre-Req ECA228</i>		
Upon completion of this course, the student will have mastered implementation of Macromedia Dreamweaver to rapidly develop web sites, client side scripting and server side scripting, including database connection. Graphic development with Macromedia Fireworks is also introduced including Fireworks and Dreamweaver integration.		

IMT125		
3D GRAPHICS MODELING	3	4
<i>Pre-Req IMT122</i>		
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.		

	Credit Hours	Contact Hours
IMT126 FLASH ANIMATION <i>Pre-Req ECA122</i>	3	4
This course introduces the students to Macromedia Flash. The student will learn to work with Flash effectively and master the basic concepts of animating with Flash. Topics include developing animations and tutorials with Flash. Programming in Flash with Actionscript is briefly introduced.		
IMT127 GAME DESIGN	3	4
Categories of video games, design principles related to different processing platforms, current animation techniques, 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.		
IMT222 DGTL AUDIO/VIDEO PROD AND EDIT I	3	4
Topics include mixing, recording, editing and playback. Upon completion, the student will be able to effectively record, edit and exhibit sound in the following media: Web, television, CD.		
IMT223 DGTL AUD/VIDEO PROD AND EDIT II <i>Pre-Req IMT222</i>	3	4
Topics include principles of producing, storyboarding, cinematography and editing. Upon completion, the student will be able to create videos from script to screen.		
IMT224 2D GAME PROGRAMMING <i>Pre-Req ECA222</i>	3	4
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.		
IMT227 3D GRAPHICS ANIMATION <i>Pre-Req IMT125</i>	3	4
Building upon the skills acquired in 3D modeling, this course teaches the student the principles of animation using 3dsMax. Upon completion, the student will understand such concepts as weight, balance, and inverse kinematics.		
IMT228 3D DESIGN PRACTICUM <i>Pre-Req IMT125</i>	3	4
The student will hone the skills learned in previous classes to create a final practicum project. This class will cover the design aspects and processes of 3D development as well as advanced concepts such as dynamics.		

	Credit Hours	Contact Hours
IMT229 THEORY AND COMPOSITION <i>Pre-Req IMT222</i>	3	4
Tone and its physical representations, meter and measure, major keys and scales, tempo, the MIDI software interface, computer software / hardware components and their setup are principal topics. The student will be able to explain elementary musical fundamentals and create musical compositions using computer software and hardware interfaces.		
IMT230 WEBCASTING <i>Pre-Req IMT229</i>	3	4
The technology of sending an audio and video stream of the presenter via the Internet through a streaming server is the focus of this course. Presentations are created live as well as learning to cast a previously recorded session via the streaming server and played back "on demand".		
IMT231 SEQUENCING AND MIDI SAMPLES <i>Pre-Req IMT229</i>	3	4
The production of rhythm, melody, harmony and audio files using MIDI software/hardware interfaces is the focus. An understanding of computer software and hardware technology and MIDI interfaces to create audio files is the bottom line. The student will create a variety of audio files, to include a number of musical compositions, and will be able to describe the resulting compositions using terminology found in both the study of physics and the fundamentals of music. Copyright laws will also be discussed.		
IMT232 I INSTRUMENTAL PRACTICUM <i>Pre-Req IMT229</i>	1	2
A practical application of the student's knowledge of music fundamentals, 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.		
IMT235 FLASH WEB PROGRAMMING <i>Pre-Req IMT126</i>	3	4
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.		

	Credit Hours	Contact Hours
IMT236		
DESIGNING FOR PRESENTATIONS	3	4
<i>Pre-Req IMT223</i>		

Course focuses on the most efficient way to present information for various media, Computer Based, Web Based, Multimedia. Students will build on the skills obtained from previous classes in the Instructional Design option to create presentations in many media.

IMT237		
COMPOSITING	3	4
<i>Pre-Req IMT223</i>		

Students learn how to create special effects using the green screen, mattes, alpha channels and masks, using special effects software. Upon completion, student will be able to effectively create special effects in various formats.

IMT238		
ADVANCED VIDEO PRODUCTION	3	4
<i>Pre-Req IMT222</i>		

Topics include principles of producing, storyboarding, cinematography and editing. Upon completion, the student will be able to create videos from script to screen.

Massage Therapy

MAS121		
MASSAGE THERAPY I	6	8

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.

MAS122		
MASSAGE THERAPY II	2	3
<i>Pre-Req MAS121, MAS123</i>		

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.

MAS123		
MASSAGE THERAPY A & P I	1	1

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. Students will make visual presentations of assignments involving muscle groups.

MAS124		
MASSAGE THERAPY A & P II	2	2
<i>Pre-Req MAS123</i>		

Co-Req BIO122

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

MAS223		
MASSAGE THERAPY REVIEW	3	3
<i>Pre-Req BIO122</i>		

Co-Req MAS226

This course contains a review of human anatomy and physiology in preparation for the Ohio State Medical Board exam for certification in Massage Therapy as a Limited Medical Practice.

MAS224		
MASSAGE THERAPY III	4	5

In this course the students continue to study the practice of massage therapy in both a general and clinical setting.

MAS225		
MASSAGE THERAPY IV	3	3

In this course students continue to study the practice of massage therapy in both a general and clinical setting.

MAS226		
MASSAGE THERAPY V	3	4

Pre-Req MAS225, MAS124

In this course, students will examine various massage therapy practices in the clinical setting. Massage procedures from various works will be used in the study of treatment of systemic and musculoskeletal dysfunctions. (Also reviews for state test.)

MAS227		
MASSAGE THERAPY PROCEDURES	2	3

Pre-Req MAS121

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.

MAS228		
PROFESSIONAL PRCTCE AND EVALUATN	1	1

Pre-Req MAS224

Co-Req MAS225

Investigation into State Medical Board requirements and licensing and examination of topics related to issues relevant to professional massage therapy practice, culminating in in-class presentation. Also application of skills to course instructor followed by comprehensive evaluation of student performance.

	Credit Hours	Contact Hours
MAS229 CLINIC OPERATIONS <i>Pre-Req MAS225</i>	2	3
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 utilizing massage therapy office software. Students will learn the skills necessary to manage a professional practice. Examination of the therapeutic relationship between and the massage professional and the client will also be covered.		
Medical Assisting Program		
MAT121 MEDICAL ASSISTING I	4	6
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 the "Total Concept of Patient Care" communication skills and the techniques employed by the medical assistant while taking and recording vital signs; measuring visual and hearing acuity; practicing medical and surgical asepsis and infection control and the proper techniques in performing irrigation of the eye and ear is taught. The course also teaches assisting with minor office surgical procedures, suture insertion/removal, sterile dressing change, and wound care. Pathophysiology is presented as related to procedures.		
MAT122 MEDICAL ASSISTING II <i>Pre-Req BIO101, MAT121</i>	4	6
Course focuses on performing and assisting with advanced clinical procedures: venipuncture/specimen preparation compliant with OSHA/CLIA standards, electrocardiography, positioning and draping and assisting with physical examinations, gynecological examinations and specimen preparation, urinary bladder catheterization, x-ray preps and dietary instructions. Documentation of clinical procedures are stressed throughout the course of study. Pathophysiology is presented as related to procedures.		
MAT123 MED ASSISTING III/SEM <i>Pre-Req MAT122</i>	3	4
The "Total Concept of Patient Care" simulation gives Medical Assisting students the opportunity to incorporate and use their acquired knowledge of clinical and administrative skills in health care delivery while working and		

managing the S & T Clinic. The S & T Clinic is a structured and controlled OSHA/CLIA compliant environment, simulating a medical office, for the sole purpose of preparing students for externship in a clinical facility. Medical Assisting III precedes Medical Assisting Seminar, fifth semester. Seminar is an integral part of MAIII. Students will be recertified in CPR before completion of Medical Assisting III.

MAT124
MEDICAL OFFICE PROCEDURES I
Co-Req CAP120 or OAD101

3 4

The first eight-weeks of this course focuses on preparing students for medical office administrative procedures including medical records management, filing procedures, and computer word processing. Hands-on projects are designed to provide students with the opportunity to create and maintain patient charts. The second eight-weeks of the course is designed to prepare the students to perform medical transcription in the physician's office by the use of medical dictation and computer word-processing.

MAT221
MED LAB PROC FOR MED ASSTG
Pre-Req MAT122

3 4

Introduction to basic medical laboratory techniques used in the physician's office with emphasis on quality assurance in all aspects of lab procedures. Laboratory safety and proper use of laboratory instruments is stressed. Our lab is run in compliance with OSHA/CLIA standards. Lab tests taught represent all departments of a clinical lab and includes spirometry. Pathophysiology is presented as related to procedures.

MAT222
INSURANCE-MAT
Co-Req MAT124, MAT122

4 5

This course focuses on developing a knowledge of commercial, government, and managed care programs, efficient use of CPT and ICD-9 coding books, and the ability to complete hard copy claim forms. Managerial skills include: determining patient eligibility and pre-certification requirements, patient's financial responsibility by interpretation of Explanation of Benefits forms, tracking claims, following up on unpaid or denied claims through the appeal process of resubmission of the claim in order to collect proper reimbursement. This course also includes posting financial transactions to the pegboard bookkeeping system. Pathophysiology is presented as related to diagnoses.

	Credit Hours	Contact Hours
MAT223 MEDICAL OFFICE PROCEDURES II <i>Pre-Req MAT122, MTH101, ENG124</i> <i>Co-Req MAT124</i>	4	6
This course is designed to build on techniques learned in MAT124 and focus on preparing students for advanced medical office administrative procedures and provides a foundation beginning with professional behavior interpersonal techniques and medical law. Hands-on projects are designed for the student to experience appointment scheduling, telephone screening, written communication, billing and collection techniques, general banking, and accounts payable. Medical office computer software is used extensively. Student demonstrates the ability to organize their work, set priorities, and make decisions. Students will complete a professional resume, cover letter, and participate in a video-taped mock job interview with classmates.		
MAT224 PHARMACOLOGY/MEDICATIONS <i>Pre-Req MAT122, MTH101</i>	4	5
Course focuses on specific drug classifications, their 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.		
MAT225 EMERG MED PROC FOR MED ASSTG <i>Pre-Req MAT122</i>	2	3
This course is designed to enable students to become certified in American Red Cross adult, child, and infant CPR and AED, First Aid and Safety. 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. Students also research current bioethical issues and present an oral report to the class.		
MAT226 OFFICE MANAGEMENT/LAW <i>Pre-Req MAT122, MAT223</i>	3	3
This course is designed to prepare potential managers to develop a perspective in managing the physical plant, physician's business practice and employees. The course deals with basic management principles, problem solving, communication skills, hiring, training, appraising and disciplining employees as well as employment and anti-discrimination laws. The students develop specific projects as a group or individually. Projects include designing a floor plan, constructing a policy and procedure manual, presenting a patient education lesson,		

and designing a brochure. The law as applied to employment and sexual harassment is covered. Other managerial functions such as credentialing a physician are also included.

MAT227 EXTERNSHIP MEDICAL ASSISTING	2	12
The student is placed in a medical facility for 160 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.		

MAT228 OPHTHALMOLOGY I <i>Pre-Req MAT121, MAT122</i>	3	3
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.		

MAT229 OPHTHALMOLOGY II <i>Pre-Req MAT228</i>	3	3
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.		

MAT230 ADV PHLEBOTOMY <i>Pre-Req MAT122</i>	3	4
Advanced Phlebotomy is designed for Stark State College of Technology students who have had venipuncture or Certified Medical Assistants with at least one year of drawing experience. It focuses on hospital or clinical phlebotomy and expands to specimen collection, handling and transporting as well as safety and infection control practices that protect a phlebotomist while in class or at a clinical facility. There is emphasis on collecting specimens from hard-to-draw patients and tests that are often unique to a hospital. This course is designed to complete educational requirements for candidates to sit for the National (NCA) Clinical Laboratory Phlebotomy Certification examination. Forty hours of clinical externship in a hospital or clinical facility are required for completion of advanced phlebotomy.		

	Credit Hours	Contact Hours
MAT231 REIMBURSEMENT FR HLTH CARE SER	3	3
<i>Pre-Req BIO101 or BIO121 or BIO123</i>		

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.

MAT232 HOSPITAL PHLEBOTOMY	3	4
<i>Pre-Req CAL103</i>		

This course focuses on anatomy, physiology and medical terminology pertinent to phlebotomy, phlebotomy and microcapillary puncture skills collection/handling of specimens, transporting specimens, off-site testing and drawing in special units of a hospital. Quality assurance, infection control, safety, law and ethics are important elements of the course. Students must attain clinical competency to be eligible for the hospital-based phlebotomy experience. Students who successfully complete the course would be eligible to sit for National Certification in Phlebotomy.

Mechanical Engineering Technology

MET123 MATERIAL SCIENCE	2	3
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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.

MET124 STATICS/STR OF MATERIALS	4	5
<i>Pre-Req MTH121, PHY121</i>		

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.

MET221 ADV STRENGTH OF MATERIAL	2	3
<i>Pre-Req MET124</i>		

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.

MET222 FLUID POWER	4	5
<i>Pre-Req MET124</i>		

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.

MET223 DYNAMICS	2	3
<i>Pre-Req MET124</i>		

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 developed. Students are expected to submit one formal report in a format that requires the use of word processing and spreadsheet software.

MET225 MANUFACTURING PROCESSES	3	4
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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.

MET226 TECH PROJECT-MECHANICAL	2	4
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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.

MET227 THERMODYNAMICS AND HEAT TRANS	3	4
<i>Pre-Req MTH121, PHY121</i>		

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.

	Credit Hours	Contact Hours
MET228 MACHINE DESIGN <i>Pre-Req MET124</i>	4	5
Descriptive, dimensional and kinematic analysis of machine components, including bearings, shafts, couplings, cams, brakes, gear drives, belt and chain drivers and clutches. Laboratory work includes problem-solving and computer-aided drafting and design of machine components and systems.		
MET229 INTRO ALT ENERGY SOURCE AND FUEL	2	2
This course introduces the student to alternative energy sources such as, solar, wind power, geothermal, hydro-electric and fuel cells. Nearly half of the course addresses 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).		
MET230 ANALYSIS AND APP TYPES FUEL CELLS <i>Pre-Req MET229</i>	3	4
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.		
MET231 FUEL CELL SYSTEMS <i>Pre-Req MET230</i>	2	3
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, power conditioning of DC and AC, heat transfer, and interfacing with the power grid.		
MET232 FUEL CELL PROJECT <i>Pre-Req MET231</i>	2	3
In coordination with a faculty advisor, student works on a project to design and build a fuel cell system by selecting a market 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.		

Business Management Technology

	Credit Hours	Contact Hours
MGT121 PRINCIPLES OF MANAGEMENT <i>Pre-Req BUS121</i>	3	3
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.		
MGT221 SUPERVISION <i>Pre-Req MGT121</i>	3	3
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.		
MGT222 SMALL BUSINESS MGT <i>Pre-Req ACC126 or ACC133</i>	3	3
Focus on problems of organizing and operating a small business with special emphasis on the creation of the business plan. Case studies are used to reinforce basic business concepts and principles. Upon completion, students should understand the complexities of owning their own business and be able to create a business plan.		
MGT223 BUSINESS DECISION MAKING <i>Pre-Req ACC133, MGT121</i>	4	4
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 area 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 interactivensess, and competitive market analysis on everyday business decisions.		

MGT224

HUMAN RESOURCE MGT

3	3
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Pre-Req MGT121

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 and labor and management relations. Upon completion, students should be able to demonstrate an understanding of the management of the human resource.

MGT227

OPERATIONS MANAGEMENT

4	4
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Pre-Req MGT233 or BUS124 or MTH222 or ACC127

Principles and practice of installation, operation and control of efficient operating systems; plant location, layout, scheduling, materials management and quality. Upon completion, students should be able to demonstrate an understanding of efficient operating systems.

MGT232

INTERNATIONAL BUSINESS

3	3
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Pre-Req BUS121

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.

Medical Instrument Sterilization Technology

MIS121

MED INSTRUM STERILIZATION I/SEM

4	12
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Co-Req BIO125, BIO101

This course presents the student with an overview of the technical functions of the field of central service/medical instrument sterilization and its application to the hospital environment. Topics include orientation to the work environment, decontamination procedures, infection control, and disinfection. Students gain the technical skills through exposure to the central service area in a hospital/clinic environment.

MIS122

MED INSTRUMENT STERIL II/SEM

6	14
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Pre-Req MIS121

This course will present the student with an exposure to the technical functions of the field of central service/medical instrument sterilization with an emphasis on

sterilization procedures, standards and practice, operations, inventory, distribution and product standardization. Students gain the technical skills through exposure to the central service area in a hospital/clinic environment.

MIS123

INTRO TO SURGICAL TERM/MCROBIO

3	3
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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.

MIS221

MED INSTRUMENT STER III/SEMINAR

6	14
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Pre-Req MIS122, MIS123

This course presents the student with an exposure to the technical functions of the field of central service/medical instrument sterilization with an emphasis on instrumentation, wrapping, quality assurance, handling, processing, and standards and practice. Students gain the technical skills through exposure to the central service area in a hospital/clinic environment.

Marketing Management Technology

MKT121

PRINCIPLES OF MARKETING

3	3
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Pre-Req BUS121

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.

MKT221

SALES

3	3
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Pre-Req MKT121

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.

	Credit Hours	Contact Hours
MKT222 ADVERTISING <i>Pre-Req MKT121</i>	3	4
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.		
MKT226 SUPPLY CHAIN MANAGEMENT <i>Pre-Req MKT121</i>	3	3
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.		
MKT227 CONSUMER BEHAVIOR <i>Pre-Req MKT121</i>	3	3
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.		
MKT228 BUSINESS TO BUSINESS MKT <i>Pre-Req MKT121</i>	3	3
This course studies industrial and organizational buyer behavior. The study of strategic marketing management practices of firms selling to business organizations, government agencies and institutions are integral to the course. Upon completion, students should be able to demonstrate an understanding of industrial and organizational buyer behavior.		
MKT229 MARKET PLANNING <i>Pre-Req MKT121</i>	4	4
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.		

	Credit Hours	Contact Hours
MKT 232 INTERNET MARKETING <i>Pre-Req MKT121</i>	2	3
This course takes a systems and relationships approach to exploring e-business marketing. The course addresses the basic principles that underlie marketing and how e-business marketing techniques fundamentally change the traditional marketing process. A framework is developed for understanding the forces during the Internet revolution in marketing and business. Lab activities include using the Internet to explore ways to improve quality and customer support, personalize product and messages, generate traffic, build community, price in realtime, and create new channels. Upon completion, the student will understand the use of the Internet in making markets and the main trends affecting the Internet.		
MKT233 MARKET RESEARCH <i>Pre-Req MKT121, ACC127</i>	3	3
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.		
MKT234 PRINCIPLES OF TRANSPORTATION <i>Pre-Req MKT226, MKT221</i>	3	3
This course will provide a thorough presentation of how transportation relates to logistics management and supply chain management. It will include an exposure to management initiatives and control techniques in transportation. The student will leave the course with a broad and general exposure to transportation and the management of transportation from both the carrier and shipper perspectives.		
MKT235 INTRODUCTION TO LOGISTICS <i>Pre-Req MKT226, ACC127</i>	4	4
This course introduces the student to the role of logistics in national and multinational business and government activities. A variety of analytical tools and techniques useful in solving logistics will be explored. The student will understand the individual components of logistics and their interrelationship within individual companies and within the supply chain.		

Medical Laboratory Technology

MLT121

FUNDAMENTALS OF LAB TECH

3 4

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.

MLT122

URINALYSIS

2 3

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.

MLT123

HEMATOLOGY I

3 4

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.

MLT124

HEMATOLOGY II

4 6

Pre-Req MLT122

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.

MLT125

IMMUNOHEMATOLOGY

5 7

Pre-Req MLT122

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.

MLT221

IMMUNOLOGY/SEROLOGY

3 4

Pre-Req MLT125

The course is designed to introduce the concepts of the immunological response in health and in disease. Included is a study of diseases commonly diagnosed by serological techniques. The course introduces the principles of serologic tests commonly performed in the clinical laboratory and interpretation of tests. The student will have the opportunity to perform a variety of laboratory procedures, including agglutination, precipitation and enzyme-linked immunoassay.

MLT222

CLINICAL CHEMISTRY

5 7

Pre-Req BIO123, BIO121

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.

MLT223

CLINICAL MICROBIOLOGY

7 10

Pre-Req BIO221, MLT124

The student will study the morphology and identification of microorganisms commonly found in humans, their relationship to disease states and their susceptibility to antibodies. 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.

MLT224

DIRECTED PRACTICE/SEMINAR

10 42

The student has the opportunity to perform clinical laboratory testing using modern equipment. Part of the clinical experience occurs at the college under the directed MLT faculty. During the remainder of the experience, the student is assigned to an affiliated hospital where she/he is under the supervision of a practicing laboratorian. The student rotates through the clinical laboratory 40 hours a week. 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. A seminar is included in this course and meets at the college.

Mechanical Service Technology

MST121

BLUEPRINT READING

2 3

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.

MST122

HYDRAULC AND PNEUMATIC PRI

3 4

Pre-Req MTH101

Co-Req MST123

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.

MST123

HYDRAULC AND PNEUMATIC APP

3 4

Pre-Req MTH101

Co-req MST122

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.

MST124

FURNACE COMBUSTION PRINC

1 1

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.

MST125

BASIC PUMPS

3 4

Co-Req MTH101

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.

MST126

PIPEFITTING PRINC AND APPLIC

4 4

Pre-Req MTH101

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.

MST127

PRINCIPLES OF WELDING

3 3

Co-Req MST128

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.

MST128

WELDING LAB

3 6

Co-Req MST127

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.

MST130

ELEMENTS OF MICROPROCESS

4 3

Pre-Req EST128

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.

MST131

STATS PROCESS CTRL CHART

2 2

Pre-Req MTH101

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.

MST133

PRESS WORKING FUNDAMENTALS

2 4

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.

MST134

HYDRAULIC AND PNEUMATIC SYS

6 8

Co-Req MTH101

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.

	Credit Hours	Contact Hours
MST135 PLUMBING AND PIPE CODE PRINCIPLE	3	3
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.		
MST221 MECHANICAL DRIVE COMPON	3	4
The study of bearings, shafts, couplings, cams, brakes, gear drives, belt drives, chain drives and clutches. Included are component application and maintenance.		
MST223 HYDRAULC AND PNEUMATIC ELEC		
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.		
MST224 DIMENSIONAL METROLOGY	2	3
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.		
MST225 DC CRANE CONTROL	1	1
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.		
MST226 TUNGSTEN INERT GAS WELD	3	5
<i>Pre-Req MST127, MST128</i> 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.		
MST227 METALLIC INERT GAS WELD	3	5
<i>Pre-Req MST127, MST128</i> 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.		

	Credit Hours	Contact Hours
MST228 SHIELDED METAL ARC I	3	5
<i>Pre-Req MST127, MST128</i> 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.		

Medical Transcription

MTC121 MED TRANS/TERM I	5	8
<i>Co-Req BIO123, BIO125, OAD121</i> Transcription of dictated medical reports organized by body system and workbook exercises also organized by body system. Emphasis on the development of accuracy and medical knowledge for the transcription of office notes, letters, operative reports, discharge summaries, procedure reports, history and physical examination reports, emergency room notes and neuropsychological evaluations. Utilizing reference materials and other resources effectively; proofreading and editing techniques. Understanding professional and confidentiality issues in medical transcription.		
MTC122 MED TRANS/TERM II	5	8
<i>Pre-Req MTC121</i> <i>Co-Req OAD129, BIO124</i> Transcription of dictated medical reports with emphasis on the development of accuracy and medical knowledge for the transcription of office notes, operative reports, discharge summaries, procedure reports, radiology reports, history and physical examination reports and autopsy reports. Utilizing reference materials and other resources effectively; proofreading and editing techniques; grammar and punctuation review. Completion of written exercises designed to help students achieve an integrated understanding of the multifaceted world of medicine.		
MTC123 ADV MED TRANSCRIPTION	3	6
<i>Pre-Req MTC122</i> <i>Co-req BIO222</i> Transcription of dictated medical reports with emphasis on the development of accuracy and medical knowledge for the transcription of operative reports, discharge summaries, radiology reports, history and physical examination reports, pathology reports. Utilizing reference materials and other resources effectively; proofreading and editing techniques; grammar and punctuation skill building. Thirty-six-hour practicum in a medical transcription setting for students meeting established criteria.		

Mathematics

MTH101
INTRODUCTION TO ALGEBRA 4 4
Pre-Req CAL103

Topics are signed numbers and variable expressions, solving equations and inequalities, polynomials, factoring, algebraic fractions, graphs and linear equations.

MTH121
COLLEGE ALG AND TRIG I 4 4
Pre-Req MTH101

Topics are fundamental operations of algebra, functions and graphs, trigonometric functions, systems of linear equations, determinants, factoring, fractions, quadratic equations, functions of acute angles, solving right triangles and functions of any size angle.

MTH122
COLLEGE ALG AND TRIG II 3 4
Pre-Req MTH121

Topics are solving oblique triangles, vectors, graphs of trigonometric functions, complex numbers, exponents, radicals, exponential and logarithmic functions, higher degree equations, additional equations and inequalities.

MTH123
INTERMEDIATE ALGEBRA 3 3
Pre-Req MTH101

Topics are fundamental operations of algebra, functions and graphs, systems of linear equations, factoring, fractions and quadratic equations.

MTH221
CONCEPTS OF CALCULUS 3 3
Pre-Req MTH122

A study of the theory and techniques of analytic geometry, differential and integral calculus, including variables, functions, limits, differentiation, integration and applications of the derivative and integral.

MTH222
STATISTICS 3 3
Pre-Req CAL103

Presents statistical techniques and methods. Graphical and tabular presentation of data, descriptive statistical parameters, probability concepts, statistical distributions, sampling, estimation and hypotheses testing and correlation.

MTH223
ANALYTIC GEOMETRY-CAL I 4 4
Pre-Req MTH122

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.

Nursing

NUR121
FUND CONCEPTS IN NURSING 6 12

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.

NUR122
NURSE CARE CHILDBEAR FAM 4 8
Pre-Req BIO122, CHM122, ENG124, NUR221

This course focuses on nursing care of the child-bearing family. New trends in maternity-child nursing are included.

NUR123
NURSING CARE OF CHILDREN 4 8
Co-Req NUR122

This course focuses on nursing care of children and their families experiencing alterations in health. Nursing care plans are developed for all age ranges of children. Alterations in health care studied in relation to their effect on the developmental status of children.

NUR201
TRANSITION FOR LPNS 5 9

This course is designed for the licensed practical nurse who is admitted to the nursing program with advanced standing. Content includes introduction to ADN philosophy, refinement of the nursing process and nursing assessment, role transition and select trends in nursing. Select nursing skills will be evaluated in the learning laboratory as a means of validating safe performance of these skills.

NUR221
NUR CARE PERSON/ALT I 6 12
Pre-Req CHM121, NUR121, PSY121; BIO121 or BIO123

This course introduces the nursing care of persons with alterations in health, with continued emphasis on technical nursing skills. The perioperative experience is also introduced. The health care needs of the young and middle adult are examined.

	Credit Hours	Contact Hours
NUR222 NUR CARE PERSON/ALT II <i>Pre-Req PSY123</i>	8	12
This course provides for further development and application of concepts in nursing of persons experiencing alterations in health. Principles in oncology nursing are introduced. The course examines the basis of a therapeutic relationship between the nurse and the client. Integrated within the course is the use of the nursing process with clients with common alterations in psychosocial health.		
NUR223 NUR CARE PERSON/ALT III <i>Pre-Req NUR221</i>	8	18
This course continues to develop the knowledge base necessary for nursing practice. Initially, the course focuses on the nursing care of clients with more complex and acute health problems. Emergency nursing principles are introduced. Management concepts, the organization as a system and the nurse as a manager of client care are subsequently addressed. Application of these concepts is facilitated through a preceptorship. This directed nursing practice will assist in role transition from student to beginning associate degree nurse.		
NUR224 NURSING SEMINAR <i>Pre-Req BIO221, SOC121, NUR222</i> <i>Co-Req NUR223</i>	1	1
This course examines issues related to the role transition from student to entry-level associate degree nurse. Emphasis is placed on student's involvement in exploring issues relevant to practice as a staff nurse.		

Administrative Information Technology

OAD100 COMP APP-WINDOWS AND CONCEPT	1	2
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.		
OAD101 KYBDG/DATA INPUT METHODS	1	2
Upon completion, the student will have working knowledge and basic skills in alpha-numeric touch keyboarding. Scanning, optical character recognition and voice input methods of data input will also be covered. No prior knowledge of keyboarding is required.		

OAD102 COMPUTER APPLICATIONS-WORD <i>Pre-Req CAL104</i> <i>Co-Req OAD100</i>	1	2
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.		
OAD104 COMPUTER APPLIC-POWERPOINT <i>Pre-Req OAD100, CAL104, OAD125</i>	1	2
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.		
OAD105 COMPUTER APPLICATIONS-EXCEL <i>Pre-Req OAD100 or CAP120 or CAL104 or OAD125</i>	1	2
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.		
OAD106 COMPUTER APPLICATIONS-ACCESS <i>Pre-Req OAD125 or OAD100 or CAL104</i>	1	2
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.		
OAD121 KEYBOARDING/FORMATTING	3	4
This course is designed to refine the fundamentals of "touch" control of the keyboard and proper keyboarding techniques. KNOWLEDGE OF KEYBOARDING IS REQUIRED. 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.		
OAD127 WP-MICROSOFT WORD <i>Pre-Req OAD125 or CAP120, OAD121</i>	3	4
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.		

	Credit Hours	Contact Hours
OAD128 DTP- MICROSOFT PUBLISHER	3	4
<i>Pre-Req CAP120 or OAD125, OAD131</i>		
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.		
OAD129 KEYBOARDING/SKILLBUILDING	1	3
<i>Pre-Req OAD121</i>		
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.		
OAD130 COMM AND TRANSCRIPT SKILLS	3	3
This course emphasizes the elements of written communication including spelling, grammar, punctuation and word usage for the transcription and preparation of business documents. Upon completion, students should be able to use proper grammar and punctuation skills in written and oral communication.		
OAD131 GRAPHIC DESIGN CONCEPTS	3	4
This course is an introduction to computer graphic design techniques for electronic publishing. Desktop publishing design concepts will be applied to the creation of effective business documents, forms, and web sites. Upon completion, the students should be able to design attractive and effective business document layouts.		
OAD132 RECORDS MANAGEMENT	3	4
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. 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.		

	Credit Hours	Contact Hours
OAD224 LEGAL OFFICE PROCEDURES	3	4
<i>Pre-Req OAD121 or OAD130</i>		
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.		
OAD225 ADMIN MACHINE TRANSCRIPT	3	4
<i>Pre-Req OAD130</i>		
This course will help the student develop proficiency in producing mailable copy of dictated letters, memos and reports using transcription equipment and word processing software. Continued emphasis is given to language arts and proofreading skills. Upon completion, students should be able to transcribe verbal dictation into mailable printed copy.		
OAD226 SPRSHEET MICROSOFT EXCEL	3	4
<i>Pre-Req CAP120, OAD125</i>		
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.		
OAD227 ADMIN PROCEDURES AND SYS	3	4
<i>Pre-Req OAD122 or OAD129, OAD130</i>		
This course places emphasis on an administrative office setting and information systems. Areas covered include keyboarding and composing of various office correspondence, processing mail, dealing with office visitors, maintaining an electronic calendar, making travel arrangements, e-mail, voice mail, fax, copiers and telephones. Office problems, practices and procedures are also emphasized. Upon completion, students should be able to demonstrate an understanding of these office procedures and the roll of the administrative assistant in performing these tasks.		
OAD232 ADMIN INFO TECH PRACTICUM	3	6
Students are assigned to work for college faculty or staff or to businesses outside the college. Students will meet in class two hours per week with an instructor. Upon completion, students should be able to demonstrate proficiency in office administrative tasks and skills in a work environment.		

OAD234**ADMIN INFO SPECIAL TOPICS**

2 2

Selected topics on areas of interest to administrative information technologies majors through seminar meetings and/or individualized research. Upon completion, students should be knowledgeable in current trends and issues in office administration technology.

OAD235**LEGAL RESEARCH AND WRITING**

3 4

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.

OAD236**DB APP MICROSOFT ACCESS**

3 4

Pre-Req CAP120, OAD125

This course covers database applications on the micro-computer using the Microsoft Access program. Upon completion, students should be able to demonstrate proficiency in using MS Access to solve common business problems.

OAD237**LEGAL OFFICE APPLICATION**

3 4

Pre-Req OAD224, OAD239

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 legal 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 a word processing software.

OAD238**MICROSOFT FRONT PAGE**

3 4

Pre-Req CAP120, OAD131

This course covers the concepts, design and application of web page publishing using Microsoft Front Page. Students will produce web pages by combining text, graphics and scanned images. Upon completion, students will be able to design and produce professional web pages using advanced publishing features.

OAD239**LEGAL TRANSCRIPTION**

3 4

Pre-Req OAD129, OAD130

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.

Occupational Therapy Assistant Technology**OTA121****FOUNDATIONS OF OT**

3 4

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.

OTA122**THERAPEUTIC MEDIA**

3 6

Co-Req OTA121

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.

OTA123**PSYCHOSOCIAL ASPECTS OT**

4 4

Pre-Req PSY121, OTA121, OTA122

Co-Req OTA124 PSY221

Instruction in occupational therapy theories and treatment for individuals with psychiatric and/or social impairments. Emphasis on therapeutic application of self, group dynamics, relaxation techniques and therapeutic use of activities to promote psychological well-being and enhance occupational performance.

OTA124**PSYCHOSOCIAL CLINICAL EX**

3 5

Pre-Req OTA121

Co-Req OTA123

Skill development in group processes and didactic interactions. Supervised work experience and interactions with persons who have psychological dysfunctions.

OTA221**DEVELOP ASPECTS IN OT**

4 4

Pre-Req BIO123, OTA121

Co-Req OTA222, PTA226, OTA223

Identification and description of handicapping conditions existing from birth or early childhood. 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.

OTA222**DEV CLINICAL EXPERIENCE**

3 5

Pre-Req OTA121, BIO123, OTA123, OTA124

Co-Req OTA221

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.

	Credit Hours	Contact Hours
OTA223 LIFE SPAN DEVELOPMENT <i>Pre-Req ENG124 or ENG101</i> 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.	5	5
OTA224 OT IN PHYSICAL DYSFUN <i>Pre-Req PTA226, OTA222, OTA223</i> <i>Co-Req BIO124, OTA225</i> Instruction in occupational therapy theories and treatment for individuals with physical impairments and high risk medical conditions. Emphasis on use of therapeutic activities to restore, maintain and/or facilitate physical well-being and independence.	4	4
OTA225 PHYS DYSFUNCTION CLINIC <i>Pre-Req OTA222</i> <i>Co-req OTA224</i> 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.	3	5
OTA226 OT ASST SEMINAR <i>Pre-Req OTA224, OTA225</i> Examination and discussion of the professional roles and responsibilities of the occupational therapy assistant. Includes exploration of traditional and non-traditional roles, such as activities coordinator and case manager orientation to licensure; legal aspects of treatment and documentation.	2	2
OTA227 CLINICAL APPLICATIONS I <i>Pre-Req OTA225, OTA224</i> <i>Co-Req OTA226</i> 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.	3	40

OTA228 CLINICAL APPLICATIONS II <i>Pre-Req OTA225, OTA224</i> <i>Co-Req OTA226</i> 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.	3	40
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Philosophy

PHL122 ETHICS Uses historical and contemporary theories to examine the role and application of ethics to a variety of personal and professional modern-day situations.	3	3
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Physics

PHY101 PRINCIPLES OF PHYSICS <i>Pre-Req MTH101 or MTH121</i> 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.	4	5
PHY121 PHYSICS I <i>Co-Req MTH121</i> Study of motion, force, momentum, energy, rotational dynamics and torque, centripetal force and gravity, structure and properties of matter, fluids, vibrations and waves. 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 on measurements in calculations and testing physical theories using measured data.	4	5
PHY122 PHYSICS II <i>Pre-Req MTH121, PHY121</i> Study of heat, electricity, magnetism (including circuits), electromagnetic radiation (including light), and optics. 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 on measurements in calculations and testing physical theories using measured data.	4	5

Political Science

PSC121

POLITICAL SCIENCE

3 3

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.

Psychology

PSY121

GENERAL PSYCHOLOGY

3 3

Surveys the scientific study of behavior, addressing a wide range of traditional topics, including learning, memory and cognition, sensory-perceptual processes, physiology and behavior, motivation and emotion, intelligence, personality and social interaction. Emphasizes classical and current theory and research, with selected attention to practical application.

PSY122

PSYCHOLOGY OF ADJUSTMENT

3 3

Pre-Req PSY121

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.

PSY123

HUMAN GROWTH AND DEVELOP

3 3

A study of normal physical, mental, emotional and social development and changes in the development of the individual from prenatal to old age.

PSY124

PSYCHOLOGY OF WORK

3 3

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.

PSY125

CHILD DEVELOPMENT I

3 3

Pre-Req PSY121

A detailed examination of infant/toddler growth and maturation. Physical, cognitive, affective, social, moral/ethical and personality development are studied. Ten field observation hours required.

PSY127

GROUP PROCESSES

4 4

Group theory, structure and interaction are explored with personal insight into how the individual is affected by and influences the group process. Factors that impede/enhance group effectiveness are examined, particularly those which arise from individual member behaviors.

PSY221

ABNORMAL PSYCHOLOGY

3 3

Pre-Req PSY121

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 issues.

PSY222

PSY ASPECT OF THERAPY

3 3

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.

PSY223

CHILD DEVELOPMENT II

3 3

Pre-Req PSY121

A continuation of PSY 125, focusing on the preschool years (to age eight) with some treatment of selected topics relating to later stages. Ten field observation hours required.

Physical Therapist Assistant Technology

PTA121

FUNDAMENTALS OF PT

4 5

Co-Req BIO123 or BIO121

The student is introduced to the field of physical therapy, basic standards of practice, current professional issues and interaction 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.

	Credit Hours	Contact Hours
PTA122 MUSCULOSKELTAL ANATOMY <i>Pre-Req BIO122 or BIO123</i> 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.	4	5
PTA123 KINESIOLOGY <i>Pre-Req PTA122, PHY101</i> <i>Co-Req PTA221</i> 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 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.	4	5
PTA124 MST PROCEDURES FOR PTA <i>Pre-Req PTA123, PTA221</i> The student will learn data collecting and documentation for therapeutic measurement skills including goniometry and manual muscle testing.	2	3
PTA125 PROF CLIN PRACT FOR PTA <i>Pre-Req PTA221, PTA123</i> <i>Co-Req PTA124</i> 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.	1	1
PTA221 PTA PROCEDURES I <i>Pre-Req PTA122</i> <i>Co-Req PTA123</i> 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	5	7

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.

PTA222 PTA PROCEDURES II <i>Pre-Req BIO124, PTA124, PTA125</i> <i>Co-Req PTA228, PTA229</i> 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 and physiology, 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.	5	7
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PTA223 PTA PROCEDURES III <i>Pre-Req PTA222</i> This course will present to the students the impairments, disabilities, functional limitations, and interventions of selected neuromuscular disorders and will include, but not be 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 with patients under direct PT/PTA supervision as part of the laboratory component of this course.	2	3
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PTA226 FUNCTIONAL ANATOMY <i>Pre-Req BIO123 or BIO122</i> 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 neuromusculoskeletal system. Motion of the human body is studied as a basis for therapeutic exercise and function.	4	5
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PTA227 DIRECTED PRACTICE III Selected clinical experience in various physical therapy settings under direct supervision. Grading: Credit/Fail	3	15
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PTA228 SEMINAR I <i>Co-Req PTA222, PTA229</i> Presentation of topics related to clinical practice to include ethics and professional development.	2	2
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	Credit Hours	Contact Hours
PTA229 DIRECTED PRACTICE I <i>Pre-Req PTA124, PTA125</i> <i>Co-Req PTA222, PTA228</i> Clinical experience in various physical therapy departments under direct supervision. Grading: Credit/Fail	3	16
PTA230 SEMINAR II <i>Pre-Req PTA222, PTA228, PTA229</i> Presentation of diverse clinical issues and approaches to patient management.	1	1
PTA231 DIRECTED PRACTICE II Clinical experience in various physical therapy departments under direct supervision. Grading: Credit/Fail	2	10

Respiratory Care Technology

RCT121 INTRO TO RC PROCEDURES 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.	3	4
RCT122 MED GAS ADMINISTRATION An introduction to the basics of oxygen administration, aerosol and humidification therapy.	3	4
RCT123 AIRWAY MANAGEMENT PROCED <i>Pre-Req RCT121, RCT122</i> An introduction to the therapeutic modalities used in the treatment of pulmonary disease to include: aerosol therapy, intermittent positive pressure breathing, postural drainage and percussion and the maintenance of a clear airway.	3	4
RCT124 PHARMACOLOGY FOR RT <i>Pre-Req BIO123, RCT121, RCT122</i> <i>Co-Req RCT123</i> An orientation to general pharmacology including drug groups, dosage, effects and dispensing regulations. Emphasis is placed on those drugs used in the treatment and management of cardiopulmonary disease to include: bronchodilators, mucokinetics, steroids and other drugs.	2	2
RCT125 CLINICAL PRACTICE BP/SEM <i>Pre-Req RCT121, RCT122</i> Hospital-acquired experiences consisting of the practical application of principles presented in Intro to Respiratory Care Procedures. Experiences provided include an introduction to basic patient care skills such as: medical	3	17

asepsis, vital sign monitoring, charting procedures, isolation and resuscitation. Also included are experiences in medical gas administration, aerosol therapy and intermittent positive pressure breathing therapy.

RCT126 INTRO TO CRITICAL CARE <i>Pre-Req RCT124, RCT123</i> <i>Co-Req RCT127</i> An orientation to the principles related to the care of the critically ill patient with an emphasis on mechanical ventilation.	3	4
RCT127 CARDIOPULMONARY A AND P <i>Pre-Req RCT123, RCT124, BIO123</i> <i>Co-Req RCT126</i> An orientation to the anatomy and physiology of the respiratory system and the cardiac system.	3	3
RCT128 CLIN PRACT-AIRW MGT/SEM <i>Pre-Req RCT123, RCT124, RCT125</i> Hospital-acquired experiences consisting of a practical application of the principles covered in airway management. Experiences are provided in the area of airway management, spontaneous aerosol therapy, intermittent positive pressure breathing therapy, postural drainage and percussion, tracheobronchial suctioning, as well as the principles and practices presented in Clinical Practice - Basic Procedures.	2	9
RCT221 ADVANCE RT PROCEDURES <i>Pre-Req RCT126, RCT127</i> An orientation to pulmonary function tests, pulmonary rehabilitation, and respiratory care principles and practices related to the care of neonate and pediatric patients, including a review of the cardiopulmonary diseases affecting the neonate and the pediatric patient.	3	4
RCT222 RESPIRATORY DISEASES <i>Pre-Req RCT124, RCT127</i> 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.	3	3
RCT223 PAT ASSMNST AND MONITOR <i>Pre-Req RCT221, RCT222</i> Exposure to various procedures and techniques associated with the monitoring and evaluation of the patient with cardiopulmonary disease.	3	3

	Credit Hours	Contact Hours
RCT224 CLIN PRAC CRIT CARE/SEM <i>Pre-Req RCT124, RCT126, RCT127, RCT128</i>	3	17
Hospital-acquired experiences consisting of the practical application of the principles presented in Introduction to Critical Care. Experiences provided include an exposure to ventilatory management, arterial punctures and other procedures related to the critically ill patient.		
RCT225 CLIN PRACT SPEC ROT/SEM <i>Pre-Req RCT127, RCT221, RCT222, RCT224</i>	5	25
Hospital-acquired experiences consisting of the practical application of the principles covered in previous clinical practice courses and in advanced respiratory care procedures. Experiences provided include exposure to the management of the critically ill adult patient and the newborn and/or pediatric patient, pulmonary function testing and endotracheal intubation. Seminar: Exposure to the various credentialing examinations required of a registered respiratory therapist. Students are provided with practice on the entry level examination, written registry examination, and the clinical simulation examination. The student is required to successfully complete each of these practice examinations prior to graduation from the program.		
Sociology		
SOC121 SOCIOLOGY	3	3
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.		
SOC122 SOCIETY AND TECHNOLOGY	3	3
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.		
SOC123 DYNAMICS OF THE FAMILY	3	3
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.		
SOC124 US SOCIAL SYSTEMS <i>Pre-Req SOC121</i>	3	3
Explores the nature and types of organizations and how they are expressed in social systems in American life. Topics discussed include organizational structure, power		

and authority, communications, inter-organizational relationships and bureaucracy.

SOC125 INTRO TO GERONTOLOGY	3	3
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.		
SOC126 PSYCHOSOCIAL ASPECT AGING	3	3
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 in inequality of gender, race, and economics that are compounded in old age. Topics include speed of behavior, mental functioning, mental disorders, socialization, social support, economics and retirement, leisure activities, living arrangements, and death and dying.		
SOC221 SOCIAL PROBLEMS <i>Pre-Req SOC121</i>	3	3
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.		
SOC222 JUVENILE DELINQUENCY <i>Pre-Req SOC121</i>	3	3
Introduces students to the nature and causes of juvenile delinquency. Major theories proposed as explanations of juvenile delinquent behavior are reviewed and evaluated. Students will have an opportunity to gain an understanding of the life experiences leading up to juvenile delinquent behavior, to the external and internal influences on the juvenile 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.		
SOC225 CULTURAL DIVERSITY	3	3
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.		

SOC227

SOCIAL SERV FOR ELDERLY

3	3
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Presents 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 relatives. 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.

Speech

SPH121

EFFECTIVE SPEAKING

3	3
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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.

SPH122

INTERGROUP COMMUNICATION

3	3
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Pre-Req ENG124

Students examine the role of the individual in small work and social group environments. Primary aspects of the course concentrate on the student conducting research in a variety of topic areas, organizing the collected data in written format, and being able to present the results of the research verbally and non-verbally to a small audience. Students will relate principles of group dynamic theory to actual application in the classroom setting. Research areas will include topics of primary concern to the student's technology.

Social Work

SWK121

INTRO TO SOCIAL WELFARE

3	3
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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.

SWK124

METHODS IN PRACTICE I

3	3
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Pre-Req SWK121

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.

SWK125

SUBSTANCE ABUSE

3	3
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Examination 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.

SWK126

HUMAN BEHAVIOR AND SOC ENV

3	3
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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.

SWK127

GROUP PROCESSES

4	4
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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.

SWK128

INTRO TO GERONTOLOGY

3	3
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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.

SWK129

PSYCHOSOCIAL ASPECT AGIN

3	3
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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 in inequality of gender, race, and economics that are compounded in old age. Topics include speed of behavior, mental functioning, mental disorders, socialization, social support, economics and retirement, leisure activities, living arrangements and death and dying.

SWK130

METHODS IN PRACTICE II

3	3
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Pre-Req SWK124

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.

	Credit Hours	Contact Hours
SWK224 POVERTY IN THE US	3	3
<i>Pre-Req SOC121 or SWK121</i>		
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 discussed.		
SWK225 VICTIM AND CRISIS INTERVENTION	3	3
Course provides students with the basic understanding of victimization and theories and practice of intervention. Issues such as risk factors, legal issues, intervention strategies of child abuse, spousal abuse, elder abuse and co-dependency will be introduced.		
SWK226 SOCIAL SERVICE LAW	3	3
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.		

	Credit Hours	Contact Hours
SWK227 SOCIAL SERVICE PRACTICUM	2	14
Individual placement in selected human and social service agencies for educationally-supervised work experience. Students will be required to develop a practicum plan and maintain a log/notebook of the practicum experience.		
SWK228 PRACTICUM SEMINAR	1	1
Review and discussion of experiences and issues encountered in the social service practicum. Survey of career opportunities in the field of human and social service. Taken concurrently with the Social Service Practicum.		
SWK230 SOCIAL SERV FOR ELDERLY	3	3
Presents 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 relatives. 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.		

Tentative Academic Calendar

2005

Summer Session 2005

All sessions begin..... June 6
First five-week session ends July 9
Second five-week session begins..... July 11
Eight-week session ends..... July 30
Second five-week session ends..... August 13
Holiday..... Independence Day - July 4

Fall Semester 2005

Classes begin August 29
Last day of classes December 12
Exam week December 13 - 17
Holidays..... Labor Day - September 5
Columbus Day - October 10
Thanksgiving - November 24, 25, 26

2006

Spring Semester 2006

Classes begin..... January 17
Last day of classes..... May 6
Exam week..... May 8 - 11
Holidays..... Martin Luther King Day - January 16
Presidents' Day - February 20
Semester break March 20 - 25
Graduation May 21

Summer Session 2006

All sessions begin..... June 5
First five-week session ends July 8
Second five-week session begins July 10
Eight-week session ends..... July 29
Second five-week session ends..... August 12
Holiday..... Independence Day - July 4

Fall Semester 2006

Classes begin August 28
Last day of classes..... December 11
Exam week December 12 - 16
Holidays..... Labor Day - September 4
Columbus Day - October 9
Thanksgiving - November 23, 24, 25

2007

Spring Semester 2007

Classes begin..... January 16
Last day of classes..... May 4
Exam week May 7 - 10
Holidays..... Martin Luther King Day - January 15
Presidents' Day - February 19
Semester Break March 19 - 24
Graduation May 20

Summer Session 2007

All sessions begin..... June 4
First five-week session ends July 7
Second five-week session begins July 9
Eight-week session ends..... July 28
Second five-week session ends..... August 11
Holiday..... Independence Day - July 4

Fall Semester 2007

Classes begin August 27
Last day of classes December 10
Exam week December 11 - 15
Holidays..... Labor Day - September 3
Columbus Day - October 8
Thanksgiving - November 22, 23, 24

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Notes

BUSINESS TECHNOLOGIES

Accounting Technology

*CPA Option
Computer Information Option
Corporate Option
Tax Option*

Administrative Information Technology

Automotive Technology

*Comprehensive Automotive Program
General Motors ASE
Toyota T-TEN (One-Year Certificate of Completion)*

Business Management Technology

*Business @ A Distance – Online Option
Finance Option
Health Services Option
International Business Option
Small Business Option
Tri-State University Transfer Option*

Financial Services Technology

Information Reporting Technology

*Captioning Option
Judicial Reporting Option
Realtime Transcription Option*

Legal Assisting Technology

Marketing Management Technology

*E-Commerce Marketing Option
Logistics Option
Sales Option*

Operations Management Technology

ENGINEERING TECHNOLOGIES

Applied Industrial Technology

Civil Engineering Technology

*Architectural Option
Construction Management Option
Surveying Option*

Design Engineering Technology

Electric Power Utility Technology

*Line Worker Technician Option
Substation Technician Option*

Electrical Engineering Technology

Electro-Mechanical Option

Electrical Maintenance Technology

Electronic Engineering Technology

Environmental, Health and Safety Technology

Heating, Ventilation and Air Conditioning Technology

Mechanical Engineering Technology

Fuel Cell Technology Track



STARK STATE COLLEGE

6200 Frank Ave. N.W.
North Canton, Ohio 44720-7299
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800-79-STARK

www.starkstate.edu

HEALTH TECHNOLOGIES

Dental Hygiene

Emergency Fire Services

Emergency Medical Services

Health Information Technology

Massage Therapy

Medical Assisting

Medical Instrument Sterilization

Medical Laboratory Technology

Nursing – ADN

Nursing – LPN to RN

Occupational Therapy Assistant Technology

Physical Therapist Assistant Technology

Respiratory Care Technology

INFORMATION TECHNOLOGIES

Computer Network Administration and Security Technology

*CISCO Network Administration Option
Client-Server Support Specialist Option
Security and Forensics Option
UNIX/LINUX Database Administration Option*

Computer Networking and Telecommunications

Engineering Technology

Computer Programming and Database Technology

Computer Science and Engineering Technology

*University of Toledo Transfer Option
Video Game Design Option*

Computer Technology

E-Commerce Technology

Internet/Web Development

Interactive Media Technology

*Commercial Music Production and
Broadcasting Option
Instructional Design Option
Video Production Option*

PUBLIC SERVICE TECHNOLOGIES

Early Childhood Education

Intervention Specialist Option

Human and Social Service

Gerontology Option

GENERAL STUDIES

English

Mathematics

Physics

Sciences

Social Sciences

ALSO OFFERING

Associate of Science Degree

Associate of Technical Studies Degree

ONE-YEAR CERTIFICATES APPROVED BY OHIO BOARD OF REGENTS

- Administrative Information Certificate
- Bookkeeping Certificate
- Computer Numerical Control (CNC) Technical Certificate
- Enrolled Agent Certificate
- Fundamental Payroll Certificate
- HVAC Certificate
- Massage Therapy Certificate
- Medical Coding Specialist Certificate
- Medical Instrument Sterilization Certificate
- Medical Transcription Certificate
- Paramedic Certificate

