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|   | <p align="center">ASSOCIATE OF APPLIED SCIENCE</p> <p align="center">COMPUTER ENGINEERING</p> <p align="center"><i>The catalog in force is assigned to students based on the academic year they first applied to the college, and changes only when students change their major or request the change in writing. Refer to Policy No. 3357:15-13-28.</i></p> | <p align="right">2025-26 Catalog</p> <p align="right">Effective Summer 2025</p> |
| | | <p>5350</p> |

Business, Engineering, and Information Technologies Division Computer Science and Information Systems Department

| TECHNICAL Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------------------------------------------------|------------------------|
| CSE231 | Java Programming | 3 | CSE122 | |
| CSE232 | Advanced Java Programming | 3 | CSE231 | |
| CSE233 | C++ Programming | 3 | CSE122 | |
| CSE234 | Advanced C++ Programming ▲ - | 3 | CSE233 | |
| EET120 | DC Circuit Analysis | 4 | pre-co-MTH125 or pre-co-MTH135 | |
| EET122 | AC Circuit Analysis | 4 | pre-co-MTH130 or pre-co-MTH135) and EET120 | |
| EET227 | PLC's and Industrial Controls I | 3 | EST230 or EET120 | |
| MTH223 | Analytical Geometry and Calculus I^* | 4 | MTH135 | |
| NET120 | PC Upgrading and Maintenance | 3 | | |
| Total | | 30 | | |
| NON-TECH Course Number | Course Title | Credits | Pre- and Co-Requisites | Completed Sem./Year |
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> | |
| COM121 | Effective Speaking | 3 | None | |
| or | or | or | or | |
| COM122 | Interpersonal Communication | 3 | None | |
| or | or | or | or | |
| COM123 | Small Group Communication^ | 3 | IDS102 or Proficiency | |
| CHM141 | General Chemistry I^ | 5 | CHM101 or Proficiency | |
| CSE122 | Programming Logic and Problem Solving^ | 3 | (IDS102 or Proficiency) and (ITD100 or Proficiency) | |
| ENG124 | College Composition^ | 3 | Co-ENG024 or Co-ENG011 or Proficiency | |
| ENG221 | Technical Report Writing | 3 | ENG124 | |
| MTH135 | Precalculus^ – A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement. | 5 | MTH025 or Proficiency | |
| PHY121 | College Physics I with Algebra (lab)^ | 4 | MTH135 or (MTH125 and MTH130) or Proficiency | |
| | Select one (1) Arts & Humanities Elective from the list below ¹ | 3 | Check for prerequisites | |
| | Select one (1) Social and Behavioral Sciences Elective from the list below ² | 3 | Check for prerequisites | |
| Total | | 33 | | |
| TOTAL CREDIT HOURS | | 63 | | |

^Based on SSC placement score

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

▲ - Fall only courses. Please see your academic advisor for availability.

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

²Social and Behavioral Sciences Electives: PSC121, PSY121, PSY123, PSY124, PSY221, SOC121, SOC122, SOC123, SOC221, SOC225

* Students who test directly into Analytical Geometry and Calculus I should contact the Math Department Chair for the possibility of receiving credit for Precalculus.

Students completing this degree may be eligible to also receive a Computer Science and Engineering – C++ Programming Career Enhancement Certificate (5255) and a Computer Science and Engineering – Java Programming Career Enhancement Certificate (5257).

PART-TIME STUDENT ADVISING NOTES

Academic Advising

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

Course Sequence

The semester-by-semester listing below provides the normal scheduling option for part-time associate degree students who plan to finish in eight semesters.

| <u>First Semester</u> | <u>Course Title</u> | <u>Credit Hours</u> | <u>Pre- and Co-requisites</u> |
|------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------|
| SSC101 | Student Success Seminar^^ | 1 | <i>Take first semester</i> |
| ENG124 | College Composition^ | 3 | Co-ENG024 or Co-ENG011 or Proficiency (IDS102 or Proficiency) and (ITD100 or Proficiency) |
| CSE122 | Programming Logic and Problem Solving^ | <u>3</u> 7 | |
| <u>Second Semester</u> | | | |
| EET120 | DC Circuit Analysis | 4 | pre-co-MTH125 or pre-co-MTH135 |
| MTH135 | Precalculus^ – <i>A student may take MTH125 (College Algebra) and MTH130 (Trigonometry) over two semesters to satisfy this requirement.</i> | <u>5</u> 9 | MTH025 or Proficiency |
| <u>Third Semester</u> | | | |
| COM121 | Effective Speaking | 3 | None |
| or | or | or | or |
| COM122 | Interpersonal Communication | 3 | None |
| or | or | or | or |
| COM123 | Small Group Communication^ | 3 | IDS102 or Proficiency |
| CSE231 | Java Programming | 3 | CSE122 |
| CSE233 | C++ Programming | <u>3</u> 9 | CSE122 |
| <u>Fourth Semester</u> | | | |
| EET122 | AC Circuit Analysis | 4 | (pre-co-MTH130 or pre-co-MTH135) and EET120 |
| NET120 | PC Upgrading and Maintenance | 3 | |
| <i>Arts & Humanities Elective¹</i> | | <u>3</u> 10 | <i>Check for prerequisites</i> |
| <u>Fifth Semester</u> | | | |
| CSE234 | Advanced C++ Programming ▲ - | 3 | CSE233 |
| CSE232 | Advanced Java Programming | 3 | CSE231 |
| EET227 | PLC's and Industrial Controls I | <u>3</u> 9 | EST230 or EET120 |
| <u>Sixth Semester</u> | | | |
| CHM141 | General Chemistry I^ | 5 | CHM101 or Proficiency |
| <i>Social and Behavioral Sciences Elective²</i> | | <u>3</u> 8 | <i>Check for prerequisites</i> |
| <u>Seventh Semester</u> | | | |
| ENG221 | Technical Report Writing | <u>3</u> 3 | ENG124 |
| <u>Eighth Semester</u> | | | |
| MTH223 | Analytical Geometry and Calculus I^* | 4 | MTH135 |
| PHY121 | College Physics I with Algebra (lab)^ | <u>4</u> 8 | MTH135 or (MTH125 and MTH130) or Proficiency |
| TOTAL CREDITS | | 63 | |

^Based on SSC placement score

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

▲ - Fall only courses. Please see your academic advisor for availability.

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

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