



| DEGREE SHEET / 2023-2024 CATALOG | | |
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| Student name: | | |
| Eagle ID: | | |
| Eagle Email: | | |
| Phone: | | |
| <p>ASSOCIATE in ENGINEERING (AEng) in SOFTWARE ENGINEERING</p> <p>The curriculum in the Associate Degree in Engineering (AEng) in Software Engineering Technology is designed for those who intend to launch a career in the testing, installation, and maintenance of computer software modules and systems. Coursework in the program is practice-oriented and prepares students to work in a variety of computer-intensive environments that involve engineering support: technical organizations, small or large businesses, manufacturing companies, and data-directed services. The breadth of training in hardware, software, troubleshooting equipment, and other computer tools will enable the graduate to work in a variety of roles in such environments as software technician, computer systems technician, data applications or computer technician, or as a test and integration assistant. The graduate of this curriculum will be a software engineering technician versed in mathematics, physics, computer science, software development, and business fundamentals. Failure to maintain an overall GPA of at least a 2.00 in all coursework is sufficient cause for being dropped from the program.</p> | | |
| GENERAL EDUCATION REQUIREMENTS (31 Credits) | SEMESTER | GRADE |
| AREA I: COMMUNICATIONS (6 Credits) | | |
| ENGL 1110 Composition I (3) <i>Pre-requisites: ENGL 109 or adequate score on the Course Placement Evaluation</i> | | |
| ENGL 1210 Technical Communications (3) <i>Pre-requisite: ENGL 1110</i> | | |
| AREA II: MATHEMATICS (3 Credits) | | |
| ENGR 1121L Introduction to Math for Engineering Applications I (3) <i>Pre-Requisite: College Algebra, Math 1215</i> | | |
| AREA III: LABORATORY SCIENCES (4 Credits) <i>You must select one science course with a lab</i> | | |
| ENGR 1101/L Computer Science for All (4) | | |
| AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits) <i>Pre-requisite: ENGL 109 or adequate score on the Course Placement Evaluation</i> <i>You must select one Area IV course.</i> | | |
| Area IV Course (3) | | |

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| AREA V: HUMANITIES (3 Credits) <i>Pre-requisite: ENGL 109 or adequate score on the Course Placement Evaluation</i> <i>You must select one Area V course.</i> | | |
| Area V Course (3) | | |
| AREA VI: FINE ARTS (3 Credits) <i>You must select one Area VI course</i> | | |
| Area VI Course (3) | | |
| ADDITIONAL NINE CREDIT HOURS (9 Credits) | | |
| COMM 1130 Public Speaking (3) <i>Pre-requisite: ENG 109</i> | | |
| Choose one of the following Civics Courses (3) POLS 1100 Introduction to Political Science (3) POLS 1120 American National Government (3) CJUS 1110 Introduction to Criminal Justice (3) HIST 1110 United States History I (3) HIST 1120 United States History II (3) | | |
| Choose one of the following STEMH recommended Courses (3) ENVS 2130 Critical Thinking in Science (3) PSYC 2120 Developmental Psychology (3) | | |
| SUPPORT COURSES (9 Credits) | | |
| MATH 1350 Introduction to Statistics (3) <i>Pre-Requisite: Math 1215</i> | | |
| ENGR 1122L Introduction to Math for Engineering Applications II (3) <i>Pre-requisites: ENGR 1121L</i> | | |
| ENGR 2215 Physics for Engineers I (3) <i>Recommended Co-requisite: ENGR 1121L</i> | | |
| PROGRAM REQUIREMENTS (21 Credits) | | |
| EECE 1105L Microcomputer Systems (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i> | | |
| EECE 1132 Computer Networks I (3) <i>Prerequisite: None</i> | | |
| EECE 1152L Computer Programming I (3) <i>Pre-requisite: None</i> | | |
| CS 2201 Mathematical Foundations of Computer Science (3) <i>Pre-requisite: EECE 1152L</i> | | |
| EECE 2231L Intermediate Programming (3) <i>Pre-requisite: EECE 1152L</i> | | |
| Information Technology (3 Credits) | | |
| IT 250 Introduction to Databases (3) <i>Pre-requisite: EECE 1152L</i> | | |
| Support Technologies (3 Credits) | | |

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| EECE 1110L Introduction to Engineering (3) <i>Pre-requisites: None</i> | | |
| TOTAL CREDITS 61 | | |
| ADVISOR APPROVAL | DATE | |

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (15 Credits)

Elective AREA VI, Fine Arts (3)
ENGR 1110L Introduction to Engineering (3)
ENGR 1121L Introductory Math for Engineering Applications I (3)
ENGR 2215 Physics for Engineers I (3)
EECE 1132 Computer Networks I (3)

SECOND SEMESTER (15 Credits)

ENGL 1110 Composition I (3)
EECE 1152L Computer Programming I (3)
ENGR 1122L Introductory Math for Engineering Applications II (3)
EECE 1105L Microcomputer Systems (3)
IT 2250 Introduction to Databases (3)

THIRD SEMESTER (16 Credits)

Elective AREA IV, Social/Behavioral Sciences (3)
ENGL 1210 Technical Communications (3)
Elective AREA III, Laboratory Sciences (4)
MATH 1350 Introduction to Statistics (3)
CS 2201 Mathematical Foundations of Computer Science (3)

FOURTH SEMESTER (15 Credits)

COMM 1130 Public Speaking (3)
Elective Additional 9 Credit Hours (3)
EECE 2231L Intermediate Programming (3)
Elective AREA V, Humanities (3)
Elective Additional 9 Credit Hours (3)

EDUCATIONAL PLANNING FORM (Semester)

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| FALL SEMESTER | SPRING SEMESTER | SUMMER |
| | | |
| Total Units | Total Units | Total Units |
| FALL SEMESTER | SPRING SEMESTER | SUMMER |
| | | |
| Total Units | Total Units | Total Units |
| FALL SEMESTER | SPRING SEMESTER | SUMMER |
| | | |
| Total Units | Total Units | Total Units |
| FALL SEMESTER | SPRING SEMESTER | SUMMER |
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| Total Units | Total Units | Total Units |