



DEGREE SHEET / 2019-2020 CATALOG		
Student name:		
Eagle ID:		
Eagle Email:		
Phone:		
<p>ASSOCIATE OF ENGINEERING (AEng) SOFTWARE ENGINEERING</p> <p>The curriculum in the Associate of Engineering Software Engineering (AEng SE) 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 (32 Credits)	SEMESTER	GRADE
AREA I: COMMUNICATIONS (6 Credits)		
ENGL 1110 Composition I (3) <i>Pre-requisites: ENG 109 or adequate score on the Course Placement Evaluation</i>		
ENGL 1210 Technical Communications (3) <i>Pre-requisite: ENGL 1110</i>		
AREA II: MATHEMATICS (4 Credits)		
ENGR 121L and ENGR 122L Introduction to Math for Engineering Applications I and II (2 credits each for engineering majors) <i>Pre-Requisite: Math 1215</i>		
AREA III: LABORATORY SCIENCES (4 Credits) <i>You must select one science course with a lab</i>		
ENGR 101/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 You must select one Area IV course.</i>		
Area IV Course (3)		
AREA V: HUMANITIES (3 Credits) <i>Pre-requisite: ENGL 109 or adequate score on the Course Placement Evaluation 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 (8 Credits)		
MATH 1350 Introduction to Statistics (3) <i>Pre-Requisite: Math 1215</i>		
ENGR 215 Physics for Engineers I (2) <i>Pre-requisite: ENGR 121L</i>		
ENGR 217L Physics for Engineers III (3) <i>Pre-requisite: ENGR 215</i>		
PROGRAM REQUIREMENTS (20 Credits)		
Computer Science (6 Credits)		
CS 201 Math Foundations of Computer Science (3) <i>Pre-requisite: EECE 152L</i>		
IT 250 Introduction to Databases (3) <i>Pre-requisite: EECE 152L</i>		
Electrical, Electronic, and Computer Engineering (12 Credits)		
EECE 105L Microcomputer Systems (3) <i>Pre-requisite: ENGL 109 or adequate score on the Course Placement Evaluation</i>		
EECE 132 Computer Networks I (3) <i>Prerequisite: None</i>		
EECE 152L Computer Programming I (3) <i>Pre-requisite: None</i>		
EECE 231L Intermediate Programming (3) <i>Pre-requisite: EECE 152L</i>		
Support Technologies (2 Credits)		

EECE 110L Introduction to Engineering (2) <i>Pre-requisites: None</i>		
TOTAL CREDITS 60		
ADVISOR APPROVAL	DATE	

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (16 Credits)

Elective Fine Arts (3)
ENGR 110L Introduction to Engineering (2)
ENGR 121L Introductory Math for Engineering Applications I (2) (first 8 weeks)
EECE 152L Computer Programming I (3)
ENGR 215 Physics for Engineers I (2) (second 8 weeks)
Elective Laboratory Sciences (4)

SECOND SEMESTER (14 Credits)

ENGL 1110 Composition I (3)
EECE 132 Computer Networks I (3)
ENGR 122L Introductory Math for Engineering Applications II (2)
CS 201 Mathematical Foundations of Computer Science (3)
Elective Social/Behavioral Sciences (3)

THIRD SEMESTER (15 Credits)

EECE 105L Microcomputer Systems (3)
ENGL 1210 Technical Writing (3)
ENGR 217L Physics for Engineers III (3)
MATH 1350 Introduction to Statistics (3)
IT 250 Introduction to Databases (3)

FOURTH SEMESTER (15 Credits)

COMM 1130 Public Speaking (3)
Elective Additional 9 Credit Hours (3)
EECE 231L Intermediate Programming (3)
Elective Additional 9 Credit Hours (3)
Elective Humanities (3)

EDUCATIONAL PLANNING FORM (Semester)

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
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