



DEGREE SHEET / 2023-2024 CATALOG		
Student name:		
Eagle ID:		
Eagle Email:		
Phone:		
<p>BACHELOR OF ENGINEERING (BEng) INFORMATION ENGINEERING TECHNOLOGY</p> <p>The curriculum of the Bachelor of Engineering in Information Engineering Technology (BEng IET) is designed for those engineering students who intend to launch a career in the design, installation, maintenance, and repair of computer networks used for critical data entry, transfer, retrieval, and management. Coursework in the program is practice-orientated and prepares students to work in a variety of computer-intensive environments, such as technical organizations, small or large businesses, product design or 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 network designer, network support and administrator, project manager, data applications or computer communications engineer, test and integration manager or technologist in business applications. The graduate of this curriculum will be a computer network specialist, but versed in mathematics, physics, computer science, and business fundamentals.</p> <p>Students are advised to not attempt upper division coursework (300 and 400-level classes) until you have earned a GPA of 2.50 or better in all IT, CS, and CT coursework taken at the 100 and 200-level. Failure to maintain an overall GPA of 2.00 or better in all coursework will be 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: 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 1121L Introduction to Math for Engineering Applications I (3) <i>Pre-Requisite: College Algebra, Math 1220</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</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 (20 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>		
MATH 1510 Calculus I (4) <i>Pre-requisites: MATH 1250 or adequate score on the Course Placement Evaluation</i>		
MATH 1520 Calculus II (4) <i>Pre-requisites: MATH 1510</i>		
ENGR 2215 Physics for Engineers I (3) <i>Recommended Co-requisite: ENGR 1121L</i>		
ENGR 217L Physics for Engineers III (3) <i>Recommended Co-requisite: ENGR 1122L</i>		
PROGRAM REQUIREMENTS (69 Credits)		
Computer Science (3 Credits)		
CS 2201 Math Foundations of Computer Science (3) <i>Pre-requisite: EECE 1152L</i>		
Electrical, Electronic, and Computer Engineering (33 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>		
EET 2201L Digital Systems (3) <i>Pre-requisite: ENGR 1121L</i>		
EECE 2230 Introduction to Routing and Switching (3) <i>Co-requisite: EECE 1132</i>		
EECE 2231L Intermediate Programming (3) <i>Pre-requisite: EECE 1152L</i>		
EECE 3329 Human Computer Interaction (3) <i>Pre-requisite: EECE 2231L</i>		
EECE 3330 Computer Networks II (3) <i>Pre-requisite: EECE 1132</i>		
EECE 3351L Advanced Programming (3) <i>Pre-requisite: EECE 2231L</i>		
EECE 3355 Web Engineering (3) <i>Pre-requisite: EECE 2231L and IT 2250</i>		
EECE 4440 Advanced Computer Networks (3) <i>Recommended Co-requisite: EECE 3330</i>		
Information Technology (15 Credits)		
IT 2250 Introduction to Databases (3) <i>Pre-requisite: EECE 1152L</i>		
IT 3350 Database Management (3) <i>Pre-requisite: IT 2250</i>		
IT 4410 Information Assurance/Security (3) <i>Pre-requisite: EECE 2230 and EECE 3330</i>		
IT 4490 Capstone I (3) <i>Pre-requisite: EECE 2231L, IT 2250 and EECE 2230</i>		
IT 4491 Capstone II (3) <i>Pre-requisite: IT 4490</i>		
Business (3 Credits)		
ENGR 4480 Engineering Management and Project Management (3) <i>Pre-requisite: Permission of Academic Advisor</i>		
Support Technologies (15 Credits)		
ENGR 1110L Introduction to Engineering (3) <i>Pre-requisites: None</i>		
Electives from EECE/CS/IT/MATH/ENGR (12 CR). At least 9 upper division credits		
Elective (3)		
Elective (3)		
Elective (3)		
Elective (3)		
TOTAL CREDITS 120		
ADVISOR APPROVAL	DATE	

SUGGESTED SEQUENCE OF COURSES

FIRST SEMESTER (15)

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)
EECE 2230	Introduction to Routing and Switching (3)

SECOND SEMESTER (18)

Elective AREA VI, Fine Arts (3)	
EECE 1152L	Computer Programming I (3)
ENGR 1122L	Introductory Math for Engineering Applications II (3)
ENGR 2217L	Physics for Engineers III (3)
EECE 3330	Computer Networks II (3)
EECE 4440	Advanced Computer Networks (3)

THIRD SEMESTER (16)

ENGL 1110	Composition I (3)
ENGL 1210	Technical Communications (3)
MATH 1350	Introduction to Statistics (3)
Elective AREA V, Humanities (3)	
ENGR 1101/L	AREA III, Laboratory Science (4)

FOURTH SEMESTER (15)

EECE 1105L	Microcomputer Systems (3)
COMM 1130	Public Speaking (3)
EECE 2231L	Intermediate Programming (3)
IT 2250	Introduction to Databases (3)
Elective	EECE/CS/IT/MATH/ENGR Elective (3)

FIFTH SEMESTER (15)

EET 2201L	Digital Systems (3)
CS 2201	Math Foundations of Computer Science (3)
EECE 3329	Human Computer Interaction (3)
IT 4410	Information Assurance and Security (3)
IT 3350	Database Management (3)

SIXTH SEMESTER (16)

MATH 1510	Calculus I (4)
EECE 3351L	Advanced Programming (3)
ENGR 4480	Engineering Management and Project Management (3)
Elective	Additional 9 credit hours (3)
Elective	Additional 9 credit hours (3)

SEVENTH SEMESTER (13)

EECE 3355	Web Engineering (3)
IT 4490	Capstone I (3)
MATH 1520	Calculus II (4)
Elective	EECE/CS/IT/MATH/ENGR Elective (3)

EIGHTH SEMESTER (12)

IT 4491	Capstone II (3)
Elective	EECE/CS/IT/MATH/ENGR Elective (3)
Elective	EECE/CS/IT/MATH/ENGR Elective (3)
Elective AREA IV, Social/Behavioral Sciences (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
FALL SEMESTER	SPRING SEMESTER	SUMMER
Total Units	Total Units	Total Units