



<b>DEGREE SHEET / 2017-2018 CATALOG</b>		
Student Name:		
Eagle ID:		
Eagle Email:		
Phone:		
<p><b>ASSOCIATE IN ENGINEERING</b> in <b>INFORMATION ENGINEERING TECHNOLOGY</b></p> <p>The curriculum for the Associate in Engineering (AEng) in Information Technology 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-oriented 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 broadly versed in mathematics, physics, computer science, and business fundamentals. Failure to maintain an overall GPA of at least a 2.0 in all coursework is sufficient cause for being dropped from the program.</p>		
<b>GENERAL EDUCATION REQUIREMENTS (30 Credits)</b>	<b>SEMESTER</b>	<b>GRADE</b>
<b>AREA I: COMMUNICATIONS (9 Credits)</b>		
ENG 111 English Composition <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
ENG 116 Technical Writing (3) <i>Pre-requisite: ENG 111</i>		
SPCH 130 Public Speaking (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
<b>AREA II: MATHEMATICS (3 Credits)</b>		
MATH 145 Introduction to Probability & Statistics (3) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>		
<b>AREA III: LABORATORY SCIENCE (9 Credits)</b>		
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>		
Elective Laboratory Science (4) You must select a course from the following list:		
ASTR 110/L Introduction to Astronomy with Lab (4)		

PHYS 122/L	Applied Physics II with lab (4)		
PHYS 216/L	Engineering Physics II with lab (4)		
CHEM 121/L	General Chemistry I with Lab (4)		
ES 112/L	Introduction to Environmental Science with Lab (4)		
BIOL 101/L	Current Topics in Biology with Lab (4)		
GEOL 110/L	Physical Geology with Lab (4)		
<b>AREA IV: SOCIAL/BEHAVIORAL SCIENCES (3 Credits)</b>			
<i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>			
ECON 201	Microeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>		
<b>AREA V: HUMANITIES and FINE ARTS (3 Credits)</b>			
<i>Students must complete a minimum of 15 credit hours spread between areas IV and V.</i>			
Elective (3) You must select courses from the approved list in the Catalog for GenEd			
<b>AREA VI: FIRST YEAR EXPERIENCE (3 Credits)</b>			
FYE 101	First Year Experience (3) <i>Pre-requisite: None</i>		
<b>SUPPORT COURSES (4 Credits)</b>			
ENGR 121L	Introductory Math for Engineering Applications I (2) <i>Pre-requisite: MATH 150 or adequate score on the Course Placement Evaluation</i>		
ENGR 122L	Introductory Math for Engineering Applications II (2) <i>Pre-requisite: ENGR 121L</i>		
<b>PROGRAM REQUIREMENTS (26 Credits)</b>			
EECE 105L	Microcomputer Systems (3) <i>Pre-requisite: None</i>		
EECE 132	Computer Networks I (3) <i>Pre-requisite: None</i>		
EECE 152L	Computer Programming I (3) <i>Pre-requisite: None</i>		
EECE 230	Introduction to Routing and Switching (3) <i>Pre-requisite: EECE 132</i>		
EECE 231L	Intermediate Programming (3) <i>Pre-requisite: EECE 152L</i>		
CS/EECE/IT Electives (6)			
<b>Information Technology (3 Credits)</b>			
IT 250	Introduction to Databases (3) <i>Pre-requisite: EECE 152L</i>		
<b>Support Technologies (2 Credits)</b>			
ENGR 110L	Introduction to Engineering (2) <i>Pre-requisite: None</i>		
<b>TOTAL CREDITS 60</b>			
<b>ADVISOR APPROVAL</b>		<b>DATE</b>	

## SUGGESTED SEQUENCE OF COURSES

### **FIRST SEMESTER (16 Credits)**

- FYE 101 First Year Experience (3)
- ENGR 110L Introduction to Engineering (2)
- ENGR 121L Introductory Math for Engineering Applications I (2) (first 8 weeks)
- EECE 132 Computer Networks I (3)
- ENGR 215 Physics for Engineers I (2) (second 8 weeks)
- Elective Laboratory Science (4)

### **SECOND SEMESTER (14 Credits)**

- ENG 111 English Composition I (3)
- EECE 152L Computer Programming I (3)
- ENGR 122L Introductory Math for Engineering Applications II (2)
- EECE 230 Introduction to Routing and Switching (3)
- EECE/CS/IT Elective (3)

### **THIRD SEMESTER (15 Credits)**

- EECE 105L Microcomputer Systems (3)
- ENG 116 Technical Writing (3)
- ENGR 217L Physics for Engineers III with lab (3)
- MATH 145 Introduction to Probability and Statistics (3)
- IT 250 Introduction to Databases (3)

### **FOURTH SEMESTER (15 Credits)**

- SPCH 130 Public Speaking (3)
- ECON 201 Microeconomics (3)
- EECE 231L Intermediate Programming (3)
- CS/EECE/IT Elective (3)
- HFA Elective (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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