Contact Information: Jorge Crichigno 505.747.5429 **2016-2017**

Associate in Engineering
in
INFORMATION ENGINEERING TECHNOLOGY

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.

GENERAL EDUCATION REQUIREMENTS (30)	**COMPLETED**	**Planned Timeline (By Semester)**
Area 1: Communications (9)		
ENG 111 English Composition I (3)	_____	_____
Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation		
ENG 116 Technical Writing (3)	_____	_____
Pre-requisite: ENG 111		
SPCH 130 Public Speaking (3)	_____	_____
Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation		
Area 2: Mathematics (3)		
MATH 145 Introduction to Probability & Statistics (3)	_____	_____
Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation		
Area 3: Laboratory Science (9)		
ENGR 215 Physics for Engineers I (2)	_____	_____
Pre-requisite: ENGR 121L		
ENGR 217L Physics for Engineers III (3)	_____	_____
Pre-requisite: ENGR 122L		
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)		
Area 4: Social/Behavioral Sciences (3)		
ECON 201 Microeconomics (3)	_____	_____
Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation		
Area 5: Humanities and Fine Arts (3)		
Elective (3)	_____	_____
You must select courses from the approved list in the Catalog for GenEd.		
Area 6: First Year Experience (3)		
FYE 101 (3) Freshman Year Experience (3)	_____	_____
Pre-requisite: None		

SUPPORT COURSES (4)

ENGR 121L Introductory Math for Engineering Applications I (2) _____ _____
Pre-requisite: MATH 150 or adequate score on the Course Placement Evaluation

ENGR 122L Introductory Math for Engineering Applications II (2) _____ _____
Pre-requisite: ENGR 121L

PROGRAM REQUIREMENTS (26)

Electrical, Electronic and Computer Engineering (21)

EECE 105L Microcomputer Systems (3) _____ _____
Pre-requisite: None

EECE 132 Computer Networks I (3) _____ _____
Pre-requisite: None

EECE 152L Computer Programming I (3) _____ _____
Pre-requisite: None

EECE 230 Introduction to Routing and Switching (3) _____ _____
Pre-requisite: EECE 132

EECE 231L Intermediate Programming (3) _____ _____
Pre-requisite: EECE 152L

CS/EECE/IT Electives (6)

_____ _____ _____

_____ _____ _____

_____ _____ _____

Information Technology (3)

IT 250 Introduction to Databases (3) _____ _____
Pre-requisite: EECE 152L

Support Technologies (2)

ENGR 110 Introduction to Engineering (2) _____ _____
Pre-requisite: None

TOTAL CREDITS 60

SUGGESTED SEQUENCE OF COURSES

First Semester (16 cr)

FYE 100 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 cr)

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 cr)

EECE 105L Microcomputer Systems (3)
ENG 116 Technical Writing (3)
PHYS 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 cr)

SPCH 130 Public Speaking (3)
ECON 201 Microeconomics (3)
EECE 231 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**

Advisor's Signature _____

Student Signature_____