



Associate of 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 (33)

COMPLETED **Planned Timeline
(By Semester)**

Area I 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 II Mathematics (7)

MATH 145 Introduction to Probability & Statistics (3)

Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation

ENGR 120 Introductory Math for Engineering Applications (4)

Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation

Area III Laboratory Science (8)

PHYS 215/L Engineering Physics I with lab (4)

Pre-requisite: ENGR 120 OR MATH 162; Co-requisite: PHYS 215L

Elective Laboratory Science (4)

You must select a course from the following list:

ASTR 110/L Intro to Astronomy with Lab (4)

PHYS 122/L Applied Physics II with lab (4)

PHYS 215/L Engineering Physics I 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 110/L Current Topics in Biology with Lab (4)

GEOL 101/L Physical Geology with Lab (4)

Area IV Social/Behavioral Sciences (3)

ECON 201 Microeconomics (3)

Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation

Area V Humanities and Fine Arts (3)

Elective (3)

You must select courses from the approved list in the Catalog for GenEd

	COMPLETED	Planned Timeline (By Semester)
ENG 111 English Composition I (3)	_____	_____
ENG 116 Technical Writing (3)	_____	_____
SPCH 130 Public Speaking (3)	_____	_____
MATH 145 Introduction to Probability & Statistics (3)	_____	_____
ENGR 120 Introductory Math for Engineering Applications (4)	_____	_____
PHYS 215/L Engineering Physics I with lab (4)	_____	_____
Elective Laboratory Science (4)	_____	_____
ASTR 110/L Intro to Astronomy with Lab (4)	_____	_____
PHYS 122/L Applied Physics II with lab (4)	_____	_____
PHYS 215/L Engineering Physics I 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 110/L Current Topics in Biology with Lab (4)	_____	_____
GEOL 101/L Physical Geology with Lab (4)	_____	_____
ECON 201 Microeconomics (3)	_____	_____
Elective (3)	_____	_____

Area VI First Year Experience (3)

FYE 100 First Year Experience (3)

Pre-requisite: None

PROGRAM REQUIREMENTS (29)

Electrical, Electronic and Computer Engineering (24)

EECE 105L Microcomputer Systems (3)

Pre-requisite: None

EECE 111 Introduction to Web Programming (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 Elective (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 62

SUGGESTED SEQUENCE OF COURSES

First Semester (15 crs)

FYE 100 First Year Experience (3)

ENGR 110L Introduction to Engineering (2)

EECE 111 Introduction to Web Programming (3)

ENGR 120L Introductory Math for Engineering Applications (4)

EECE 132 Computer Networks I (3)

Second Semester (16 crs)

ENG 111 English Composition I (3)

EECE 152L Computer Programming I (3)

PHYS 215/LEngineering Physics I with lab (4)

EECE 230 Introduction to Routing and Switching (3)

EECE/CS/IT Elective (3)

Third Semester (16 crs)

EECE 105L Microcomputer Systems (3)

ENG 116 Technical Writing (3)

MATH 145 Introduction to Probability and Statistics (3)

IT 250 Introduction to Databases (3)

Elective Laboratory Science (4)

Fourth Semester (15 crs)

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 _____