



Associates of Engineering (AEng) Information Engineering Technology

The curriculum of the AEng in Information Technology is designed for those engineering students who intend to launch a career in the 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 as a technician in a variety of computer-intensive environments – 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 enables the graduate to work in a variety of roles in such environments as network support, data applications or computer communications technician, test and integration assistant. The graduate from this curriculum is a computer network technician who is broadly versed in mathematics, physics, computer science and business fundamentals. Failure to maintain an overall GPA of 2.0 or better in all coursework is sufficient cause for expulsion from the program.

GENERAL EDUCATION (34 crs)

Area I Communications (9 crs)

ENG	111	English Composition I (3)
ENG	116	Technical Writing (3)
SPCH	130	Public Speaking (3)

Area II Mathematics (11 crs)

MATH	145	Introduction to Probability and Statistics (3)
MATH	162	Calculus I (4)
MATH	163	Calculus II (4)

Area III Laboratory Sciences (8 crs)

PHYS	215/L	Engineering Physics I with Lab (4)
PHYS	216/L	Engineering Physics II with Lab (4)

Area IV Social/Behavioral Sciences (3 crs)

ECON	201	Microeconomics (3)
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Area V Humanities and Fine Arts (3 crs)

PHIL	220	Ethics(3)
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HEALTH, PHYSICAL EDUCATION & RECREATION (1 cr)

Elective (1)

PROGRAM REQUIREMENTS (31 crs)

Business (3 crs)

Elective in ENGR 4XX or BA(3)

Computer Science (14 crs)

CS	152/L	Computer Programming I (4)
CS	238/L	Computer Logic Design (4)
CS	241	Data Organization (3)
CS	251	Intermediate Programming (3)

Information Technology (14 crs)

IT	105/L	Microcomputer Systems (4)
IT	130	Networking Fundamentals (3)
IT	210	IT Systems (3)
IT	220	Network and Server SW (4)

TOTAL CREDITS 66

Associates in Eng. Information Engineering Technology

General Education	Course	Title	Hrs	Pre-req
Communications				
9 hours				
	ENG 111	English Composition	3	ENG 109
	ENG 116	Tech Writing	3	ENG 111
	SPCH 130	Public Speaking	3	ENG 109
Humanities				
3 hours	PHIL 220	Ethics	3	ENG 109
Mathematics				
11 hours				
	MATH 145	Introduction to Prob/Stat	3	MATH 130 or Exam
	MATH 162	Calculus I	4	MATH 160 or (MATH 150 and 155)
	MATH 163	Calculus II	4	MATH 162
Lab Science				
8 hours				
	PHYS 215/L	Engr. Physics I with Lab	4	MATH 162
	PHYS 216/L	Engr. Physics II with Lab	4	MATH 162, PHYS 215
Soc/Behavioral Sci				
3 hours	ECON 201	Microeconomics	3	ENG 109
GenEd HRS		34		
Health, PE, Rec				
1 hour	Elective		1	
PHYS Ed		1		
MAJOR				
Business				
3 hours	Elective	ENGR 4XX or BA	3	
CS				
14 Hours	CS152L	Computer Programming I	4	
	CS238L	Computer Logic Design	4	PHYS 216L, MATH 163
	CS241	Data Organization	3	CS152L
	CS251			
	Intermediate Programming	3		CS152L
Info Tech				
14 Hours	IT105L	Microcomputer Systems	4	ENG 109
IT130	Networking Fundamentals	3		CS152L
IT210	IT Systems	3		CS152L

IT220	Network and Server SW	4	IT130
MajorTotal		31	
Grand Total		66	

Associates of Eng. Information Engineering Technology

1	2	3	4
English Composition I (Eng 109N or Exam)	Technical (Eng 109N)	WritingPublic Speaking	
Calculus I (Math (150 and 155) or Eng Physics I/L	Calculus II 160)(Eng 109N or Exam) Eng Physics II/L	Microeconomics	
Introd. Prob and Statis. (Math 130) (Eng 109N)	Microcomp.	Syst. Comp. Log. Design	
Ethics (Eng 109N)	Comp Prog	Inter Program	
HPR Elective	Elective in ENGR/BA		
Data Organization			
Network.	FundamNet/Server SW		
IT Systems			

Notes and Remedials

Math 130
Math 150
Math 155

Math 160
Eng 109N

Intermediate Algebra
College Algebra
Trigonometry
College Algebra and
Trigonometry
Basic English II

Educational Planning Form (Semester)

Name _____ Date _____
Major _____ Student ID _____

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 _____