



## 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 (35)	COMPLETED	Planned Timeline (By Semester)
<b>Communications (9)</b>		
ENG 111 English Composition I (3) <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>Mathematics (11)</b>		
MATH 145 Introduction to Probability & Statistics (3) <i>Pre-requisite: MATH 130 or adequate score on the Course Placement Evaluation</i>	_____	_____
MATH 162E Calculus I (4) <i>Pre-requisites: MATH 155, ENGR 120</i>	_____	_____
MATH 163E Calculus II (4) <i>Pre-requisite: MATH 162E</i>	_____	_____
<b>Laboratory Science (8)</b>		
PHYS 215/L Engineering Physics I with lab (4) <i>Pre-requisite: ENGR 120 OR MATH 162; Co-requisite: PHYS 215L</i>	_____	_____
PHYS 216/L Engineering Physics II with lab (4) <i>Pre-requisite: PHYS 215/L</i>	_____	_____
<b>Social/Behavioral Sciences (3)</b>		
ECON 201 Microeconomics (3) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
<b>Humanities and Fine Arts (3)</b>		
HUM 100 First Year Experience: History and Culture of NNM (3) <i>Pre-requisite: ENG 108 or adequate score on the Course Placement Evaluation</i>	_____	_____
<b>Library Technology, Library Research Skills (1)</b>		
LT 101 Library Research Skill (1) <i>Pre-requisite: ENG 109 or adequate score on the Course Placement Evaluation</i>	_____	_____
<b>PROGRAM REQUIREMENTS (32)</b>		
<b>Business (3)</b>		
BA Lower division elective (3) _____	_____	_____
<b>Electrical, Electronic and Computer Engineering (20)</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 (4)	_____	_____
<i>Pre-requisite: None</i>	EECE 231L	Intermediate Programming I (3)	_____	_____
<i>Pre-requisite: EECE 152L</i>	EECE 251L	Advanced Programming I (3)	_____	_____
<i>Pre-requisite: EECE 231L</i>	EECE 238L	Computer Logic Design (4)	_____	_____
<i>Pre-requisite: MATH 150 and EECE 152L</i>				

**Information Technology (3 6)**

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

**Support Technologies (6)**

	ENGR 110	Introduction to Engineering (2)	_____	_____
<i>Pre-requisite: None</i>				
	ENGR 120	Introductory Math for Engineering Applications (4)	_____	_____
<i>Pre-requisites: MATH 130</i>				

**TOTAL CREDITS 67**

**SUGGESTED SEQUENCE OF COURSES**

**First Semester (17 cr)**

- LT 101 Library Research Skills (1)
- HUM 100 First Year Exp: History and Culture of Northern New Mexico (3)
- EECE 152L Computer Programming I (4)
- EECE 132 Computer Networks I (3)
- ENGR 110L Introduction to Engineering (2)
- ENGR 120L Introductory Math for Engineering Applications (4)

**Second Semester (17 cr)**

- ENG 111 English Composition I (3)
- MATH 162E Calculus I (4)
- EECE 238L Computer Logic Design (4)
- EECE 231L Intermediate Programming (3)
- EECE 105L Microcomputer Systems (3)

**Third Semester (17 cr)**

- ENG 116 Technical Writing (3)
- EECE 251L Advanced Programming (3)
- MATH 163E Calculus II (4)
- PHYS 215/LEngineering Physics I with Lab (4)
- ECON 201 Microeconomics (3)

**Fourth Semester (16 cr)**

- PHYS 216/LEngineering Physics II with Lab (4)
- BA Elective (3)
- MATH 145 Introduction to Probability and Statistics (3)
- SPCH 130 Public Speaking (3)
- IT 250 Intro. to Databases (3)

## Educational Planning Form (Semester)

<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>
<b>Fall Semester</b>	<b>Spring Semester</b>	<b>Summer</b>
<b>Total Units</b>	<b>Total Units</b>	<b>Total Units</b>

**Advisor's Signature** \_\_\_\_\_

**Student Signature** \_\_\_\_\_