DEGREE MAP

The following sequence is an example of how this degree can be completed in two years. This sequence is based on satisfaction of all Basic Skills requirements and prerequisites, and presumes a fall start date. An individual's program may vary depending on transfer institution, career objectives, or individual needs. See your counselor for other options and to monitor your progress.

Program Name: Engineering Technology-Associate of Applied Science Degree

Location(s) Offered:

Sierra Vista Campus

Learning Outcomes: *Students who successfully complete this program will be able to do the following:*

1. Communicate technical information such as test results in written documents and oral summaries, and in presentations to groups.
2. Demonstrate and apply computer programming for control and data reduction.
3. Program industrial devices such as Programmable Logic Controllers (PLCs).
4. Navigate the Linux operating system.
5. Configure an Internet Protocol (IP) address.
6. Demonstrate knowledge of electromagnetic phenomena at the technician level.
7. Configure, interface, and interpret data from test and communication equipment.

Course or program prerequisite(s) not included in the degree:

ENG 101 Composition requires appropriate English placement score (or see advisor).
MAT 151 Precalculus Algebra requires appropriate mathematics placement score (or see advisor).
This program requires RDG 122 Reading Critically or exemption.

Program Reviewed: **Feb 22, 2016**

Key:
IW=Intensive Writing
F2F=Face-to-Face Instruction
ITV=Instructional Television
VC=Virtual Campus/Online

Requirements	Course(s) Recommended	Delivery Method	Credits
First Semester (Fall):			
Core Curriculum	CHM 130 Fundamental Chemistry	F2F,VC	4
Core Curriculum	EGR 103 Electrical Components and Systems	F2F	4
General Education-Composition	ENG 101 Composition	F2F,VC	3
General Education-Mathematics	MAT 151 Precalculus Algebra or higher	F2F,VC	4
Second Semester (Spring):			
Core Curriculum	EGR 104 Introduction to Programmable Logic Controllers	F2F	4
Core Curriculum	MAT 182 Precalculus Trigonometry	F2F, VC	3
General Education-Composition	ENG 102 English Composition	F2F,VC	3
General Education-Liberal Arts		F2F,VC	3
General Eduction-Technology Literacy	CIS 116 Computer Essentials	F2F,VC	3
Third Semester (Fall):			
Core Curriculum	CED 224 Field Experience in Cooperative Education	F2F	2
Core Curriculum	CIS 150 Essentials of Networking	F2F,VC	3
Core Curriculum	EGR 102 Principles of Engineering	F2F	3
Core Curriculum	PHY 111 General Physics I	F2F	4
General Education-Liberal Arts	ECN 201 Macroeconomics	F2F,ITV,VC	3
Fourth Semester (Spring):			
Core Curriculum	BUS 167 Business Communications	ITV,VC	3
Core Curriculum	EGR 107 Introduction to RF Communication Systems	F2F	4
Core Curriculum	EGR 122 Programming for Engineering and Science	F2F	4
Core Curriculum	PHY 112 General Physics II	F2F	4
Elective		F2F,VC	3

Total credits required: 64

Notes: