



ENGINEERING TECHNOLOGY (A.A.S.)

SPECIALIZATION: ELECTRONICS, DIGITAL DESIGN AND MODELING

PROGRAM DESCRIPTION:

The Engineering Technology Associate in Applied Science degree program prepares students for employment or provides additional training for persons employed in manufacturing and high technology industries. SCF offers the Electronics & Digital Design and Modeling specializations.

The 18 credit hour technical core of this degree is closely aligned with the national Manufacturing Skill Standards Council (MSSC) Certified Production Technician (CPT) industry certification. After completing this core, students will be prepared to take the MSSC assessment for the CPT Certification. Students who have already earned the MSSC-CPT will receive 15 articulated credit-hours towards the Engineering Technology degree.

ASSOCIATE IN APPLIED SCIENCE DEGREE (A.A.S.)

General Education & Engineering Technology Courses

GENERAL EDUCATION (18 credits)	Cr.	ENGINEERING TECHNOLOGY CORE (18 credits)	Cr.
ENC 1101 Written Communication I	3	CAD ETD 1320C Intro to AutoCAD	3
Humanities Requirement	3	ELECTRONICS EET 1184 Introduction to Electronics	3
MTB 1321 Technical Mathematics	3	MEASUREMENT ETI 1130C Instrumentation	3
Behavioral Science Requirement	3	PROCESSES ETI 2411C Manufacturing Processes	3
CGS 1000 Computer Information Sys.	3	QUALITY ETI 1110 Quality	3
PHI 2600 Applied Ethics	3	SAFETY ETI 1701 Industrial Safety	3

Specialized Track Courses

ELECTRONICS (27-29 credits)

EET 1033C	Fund. of DC/AC Circuits	4	CET 1127C	Digital/Microprocessors II	4
EET 1141C	Electronic Devices & Circuits I	4	CET 1600	Network Fundamentals	3
EET 2141C	Electronic Devices & Circuits II	4	COP 2510	Programming Concepts	3
CET 1117C	Digital/Microprocessors I	4	ETD 2949	Internship	1-3

DIGITAL DESIGN AND MODELING (19 credits)

BCN 1251C	Construction Drafting	4	EGS 1110C	Engineering Drawing	3
ETD 1350C	Auto CAD II	3	ETD 2364C	Introduction to Solid Works	3
ETC 2331C	Auto CAD III	3	ETD XXXX	Advanced Solid Works	3

COLLEGE CREDIT CERTIFICATE

Computer-Aided Drafting (25 credits)

This program offers a sequence of courses that provides coherent and rigorous content aligned with challenging academic standards and relevant technical knowledge and skills needed to prepare for further education and careers in the manufacturing career cluster.

Course Title	Cr.	Cr.			
EGS 1110C	Engineering Drawing	3	BCN 1251C	Construction Drafting	4
ETD 2930C	Special Topics – Inter. CAD	3	ETD 1350C	AutoCAD 3-D Modeling	3
ETD 2331C	AutoCAD Auto LISP	3	<i>Engineering Electives</i>		9

