



ENGINEERING TECHNOLOGY (A.S. /A.A.S.)

SPECIALIZATIONS: ADVANCED TECHNOLOGY, ALTERNATIVE ENERGY, ELECTRONICS

PROGRAM DESCRIPTION:

The Engineering Technology Associate in Science/Applied Science degree programs prepare students for employment or provides additional training for persons employed in manufacturing and high technology industries. BCC offers the Electronics, Advanced Technology & Alternative Energy specializations along with four college credit certificates: Applied Technology Specialist, Alternative Energy System Technician, Composite Fabrication and Testing & Engineering Technology Support.

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. The Engineering Technology Associate in Science degree program is fully transferable to four year degree granting institutions.

ASSOCIATE IN SCIENCE and ASSOCIATE IN APPLIED SCIENCE (A.S./A.A.S.)

General Education & Engineering Technology Courses

GENERAL EDUCATION (18 credits)	Cr.	ENGINEERING TECHNOLOGY CORE (20 credits)	Cr.
Written Communication Requirement	3	CAD ETDC 2320 AutoCAD Fundamentals	4
Oral Communication Requirement	3	ELECTRONICS EET 1084 Introduction to Electronics	3
Humanities Requirement	3	MEASUREMENT ETIC 2851 Applied Mechanics	3
MAT 1033 Intermediate Algebra	3	PROCESSES ETIC 1830 Materials and Processes 1	4
Social/Behavioral Science Requirement	3	QUALITY ETI 2110 Introduction to Quality Assurance	3
* CGS 2100 Microcomputer Applications	3	SAFETY ETI 1701 Industrial Safety	3

Specialized Track Courses

ADVANCED TECHNOLOGY (22 credits)

ETIC 2469	Composite Fundamentals	3	ESTC 1240	Fiber Optic Technologies	3
EETC 1610	Through-Hole and Surface-Mount Soldering	3	ETI 2121	Non-Destructive & Destructive Testing	3
EETC 2620	Advanced Surface-Mount Soldering Tech	3	<i>Technical Electives- visit www.brevardcc.edu for a complete list of courses.</i>		4
EST 1520	Instrumentation Fundamentals	3			

ALTERNATIVE ENERGY (18 credits)

EET 1084	Introduction to Electronics	3	EST 1800	Solar Thermal Technology	3
EET 1551	Distributed Electrical Power Generation and Storage	3	EST 1830	Alternative/Renewable Energy Technology	3
EET 2550	Photovoltaic Technology	3	EET 1701	Industrial Safety	3

ELECTRONICS (22 credits)

EETC 1025	Circuit Fundamentals 2	4	CETC 1114	Digital Fundamentals	4
EETC 1141	Analog Devices	4	EETC 1025	Circuit Fundamentals 2	4
EETC 1142	Analog Circuits	4	EETC 1025	Circuit Fundamentals 2	4



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BREVARD COMMUNITY COLLEGE

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COLLEGE CREDIT CERTIFICATES

APPLIED TECHNOLOGY SPECIALIST CERTIFICATE (16 credits):

This certificate program will prepare the student for entry-level employment in electronic assembly field, or to provide supplemental training for individual previously or currently employed in the field. Credits earned in this certificate will transfer into the Associate of Applied Science (A.A.S.) degree in Engineering Technology.

Course Title	Cr.	Cr.
EET 1084 Introduction to Electronic	3	EETC 1610 Though-Hole & Surface-Mount Soldering 3
EETC 2620 Advanced Surface-Mount Soldering	3	EETC 1240 Fiber Optic Technologies 3
ETIC 2851 Applied Mechanics	4	

ENGINEERING TECHNOLOGY SUPPORT CERTIFICATE (20 credits)

The purpose of this certificate is to prepare students for entry-level employment with an occupational title as Engineering Support Specialist or Engineering Specialist in various specialized areas to support engineering design, manufacturing processes and production, testing, and/or maintaining product quality, or to provide supplemental training for persons previously or currently employed in these occupational areas.

Course Title	Cr.	Cr.
EET 1084 Introduction To Electronics	3	ETDC 2320 AutoCAD Fundamentals 4
ETIC 1830 Materials and Processes 1	3	ETI 1701 Industrial Safety 3
ETIC 2851 Applied Mechanics	4	ETI 2110 Introduction To Quality Assurance 3

COMPOSITE FABRICATION AND TESTING (19 credits)

This certificate program will prepare the student for entry-level employment in composite material fabrication, composite production or fiberglass lamination and fabrication, or to provide supplemental training for individuals previously or currently employed. Credits earned in this certificate will transfer into the Associate of Applied Science (A.A.S.) degree in Engineering Technology.

Course Title	Cr.	Cr.
EET 1084 Introduction to Electronics	3	ETI 1701 Industrial Safety 3
ETI 2121 Non-Destructive and Destructive Testing	3	ETIC 2469 Composites Fundamentals 3
ETIC 2464 Advanced Composites	3	ETIC 2851 Applied Mechanics 4

ALTERNATIVE ENERGY SYSTEMS SPECIALIST (21 credits)

This certificate program will prepare students to meet the industry-specific skills needed for technicians in the new and emerging alternative and renewable energy fields, including occupational titles such as Electrical Engineering Technician, Industrial Engineering Technician, Solar Photovoltaic Installer and Solar Power Plant Technician, Solar Thermal Installer and Technician, Energy Auditor, and Smart Grid Technician.

Course Title	Cr.	Cr.
EET 1084 Introduction to Electronics	3	EST 1800 Solar Thermal Technology 3
EET 1551 Distributed Electrical Power Generation and Storage	3	EST 1830 Alternative/Renewable Energy Technology 3
EET 2550 Photovoltaic Technology	3	EET 1701 Industrial Safety 3
EST 1800 Solar Thermal Technology	3	

