



ENGINEERING TECHNOLOGY, ASSOCIATE OF SCIENCE - ADVANCED MANUFACTURING

Program Code: 2207E

Career Pathway: Industry, Manufacturing, Construction & Transportation

Location(s): General education courses are available at all BC locations. Program-specific courses for this program are offered at the North Campus and Judson A. Samuels South Campus. (<https://www.broward.edu/about/locations/>)

Program Entrance Requirements: HS Diploma or GED

Program Description: The purpose of this program is to prepare students for employment or provide additional training for persons previously or currently employed in the manufacturing, medical, electronics, aerospace, or other related industries. This degree is a planned sequence of instruction with a common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. Topics covered include communication skills, technical competency, safe and efficient work practices, and a combination of theory and laboratory activities to gain the necessary cognitive and manipulative skills to support engineering design, processes, production, testing, and product quality. Visit the program's website (<http://www.broward.edu/academics/programs/engineering/Pages/default.aspx>) for additional information.

- a. Engineering Technology Support Specialist, Technical Certificate 6314
- b. Automation, Technical Certificate 6366
- c. Lean Manufacturing, Technical Certificate 6376
- d. Pneumatics Hydraulics, Technical Certificate 6368
- e. Mechatronics, Technical Certificate 6369
- f. Engineering Technology, Associate of Science - Advanced Manufacturing 2207E
- g. Bachelor of Applied Science

Course	Title	Credits	6314	6366	6376	6368	6369
EET1084C	INTRODUCTION TO ELECTRONICS	3.00	X			X	X
SCM2360	SIX SIGMA YELLOW BELT BODY OF KNOWLEDGE	3.00			X		
ETD1320C	BASIC CAD	3.00	X				X
SCM1020	MANUFACTURING AND SERVICE OPERATIONS	3.00					
ETI2644	PRODUCTION AND INVENTORY CONTROL	3.00		X	X		X
ETM2315C	HYDRAULICS AND PNEUMATICS	3.00		X		X	X
ETI1701C	SAFETY	3.00	X		X		
ENC1101	COMPOSITION I	3.00					
ETD1103C	ENGINEERING GRAPHICS WITH CAD	3.00					
ETM1010C	MEASUREMENT AND INSTRUMENTATION	3.00	X				X
GE Course	General Education Speech	3.00					
GE Course	General Education Natural Science Core	3.00					
GE Course	General Education Mathematics Core ¹	3.00					
AMH2020 or POS2041	HISTORY OF THE UNITED STATES SINCE 1877 NATIONAL GOVERNMENT	3.00					
ETS2542C	PROGRAMMABLE LOGIC CONTROLLERS	3.00		X			X
ETI1110C	INTRODUCTION TO QUALITY ASSURANCE	3.00	X		X		
ETS2527	ELECTROMECHANICAL SYSTEMS	3.00		X			X
GE Course	General Education Humanities Core	3.00					
ETI1420C	PROCESSES AND MATERIALS	3.00	X			X	
ETI2535C	AUTOMATED PROCESS CONTROL	3.00				X	X
Total Credits		60	18	12	12	12	30

¹ MAC1105 COLLEGE ALGEBRA is recommended.

Notes:

See General Education course information here (<https://catalog.broward.edu/programs-study/aa-general-education-graduation-requirements/>).

Students must satisfy the Digital Literacy requirement by testing out, completing a Credit for Prior Learning portfolio, or passing CGS1060C COMPUTER AND INTERNET LITERACY.

In accordance with Florida Statute and Florida Administrative Code, students may need to satisfy the Civic Literacy Graduation Requirement. Visit the Civic Literacy Graduation Requirement page at [broward.edu/civic-literacy](https://students.broward.edu/resources/civic-literacy/) (<https://students.broward.edu/resources/civic-literacy/>).

Students are strongly encouraged to meet with an advisor (<https://students.broward.edu/resources/advising/>) to create a personalized educational plan.

PROGRAM HIGHLIGHTS

CREDIT FOR PRIOR LEARNING

Accelerate your path to completion with these options:

- Credit by exam
- Earned industry certifications
- Prior Learning Assessment
- And much more...

RELATED INDUSTRY CERTIFICATIONS

Upon completing this program, graduates will be eligible to sit for the following industry certifications/licenses

- NMSSC Certified Production Technician

GET AN INTERNSHIP

After completing your first year of coursework make sure to visit Employment Solutions (<https://broward.edu/career/>) for internship opportunities and helpful tools like virtual job shadow, to help take your career to the next level!

- Get an Internship (<http://broward.edu/studentresources/career/Pages/Find-a-job-or-internship.aspx>)
- Virtual Job Shadow Tool (<http://www.broward.edu/studentresources/career/Pages/default.aspx>)

MEDIAN WAGE AND JOB GROWTH OUTLOOK

Broward College has Career Coach (<https://www.broward.edu/careercoach/>)! It is designed to help you find a good career by providing the most current local data on wages, employment, job postings, and associated education and training.

FUND YOUR EDUCATION

This program is Financial Aid (<https://www.broward.edu/admissions/financial-aid/>) eligible. Scholarships (<https://www.broward.edu/admissions/financial-aid/scholarships/>) may be available.

PROGRAM LEARNING OUTCOMES

Graduates from this program will:

- Demonstrate proficiency with troubleshooting an electronic circuit and find the fault within the circuit.
- Accurately identify calibration requirements for tools.
- Demonstrate knowledge of Occupational Safety and Health Administration (OSHA) standards.
- Recognize the role of, attitudes, beliefs, behaviors, and ethics in what we know and what we do, as well as understand the importance of quality in modern business scenarios to individuals, organizations, customers, suppliers, and society
- Demonstrate proficiency with measurement and instrumentation.