



# ENGINEERING TECHNOLOGY, ASSOCIATE OF SCIENCE - BIOMEDICAL

**Program Code:** 2207A

**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/>) This program is also offered fully online.

**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.

- Engineering Technology Support Specialist, Technical Certificate 6314
- Electronics Aide, Technical Certificate 6322
- Medical Quality Systems, Technical Certificate 6378
- Engineering Technology, Associate of Science - Biomedical 2207A
- Bachelor of Applied Science

Course	Title	Credits	6314	6322	6378	
EET1084C	INTRODUCTION TO ELECTRONICS	3.00	X	X		
CET1114C	DIGITAL TECHNIQUES	3.00				
ETD1320C	BASIC CAD	3.00	X			
EET1015C	DC CIRCUITS	3.00		X		
CET1117C	MICROPROCESSORS I	3.00				
EET1025C	AC CIRCUITS	3.00		X		
ETI1701C	SAFETY	3.00	X		X	
ENC1101	COMPOSITION I	3.00				
EET1141C	LINEAR TECHNIQUES I	3.00		X		
ETM1010C	MEASUREMENT AND INSTRUMENTATION	3.00	X			
GE Course	General Education Natural Science	3.00				
GE Course	General Education Mathematics Core <sup>2</sup>	3.00				
ETS2436C	BIOMEDICAL INSTRUMENTATION I	3.00			X	
HSC1531	MEDICAL TERMINOLOGY	3.00			X	
ETI1110C	INTRODUCTION TO QUALITY ASSURANCE	3.00	X		X	
AMH2020 or POS2041	HISTORY OF THE UNITED STATES SINCE 1877 NATIONAL GOVERNMENT	3.00				
GE Course	General Education Humanities Core	3.00				
ETI1420C	PROCESSES AND MATERIALS	3.00	X			
GE Course	General Education Speech	3.00				
ETS2940	BIOMEDICAL ENGINEERING TECH.INTERNSHIP	3.00			X	
GE Course	General Education Speech					
<b>Total Credits</b>			<b>60</b>	<b>18</b>	<b>12</b>	<b>15</b>

<sup>1</sup> Additional fee related to background check and insurance required for on-site work at a medical facility applies. Amount varies.

<sup>2</sup> 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.

**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.