

**Associate of Science in Engineering Technology**  
**Program Code 2207**

**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 consisting of the three specializations; electronics, alternative energy, and biomedical systems with one common core. It is recommended that students complete the core before advancing to the courses in the next level of specialization. The coverage includes 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.

**Career Pathway:** Industry, Manufacturing, Construction & Transportation (IMCT)

**Program Entrance Requirements:** High School Diploma or GED

**Related Industry Certifications:** The 18 credit hour technical core has also been aligned with the Manufacturing Skills Standards Council's (MSSC) skills standards. The MSSC skill standards define the knowledge, skills, and performance needed for positions in manufacturing. After completing this core and the General Education requirements, the students will be eligible to take the exam for the MSSC Certified Production Technician.

**Location(s):** While most of the program can be completed at any BC location, the Engineering Technology core courses are only offered at North Campus. Please consult the course schedule for specific semester locations.

**Contact information:** Program contact information can be found at <http://www.broward.edu/academics/programs/engineering/Pages/default.aspx>

<b>General Education Credit Hours</b>	<b>18</b>	Humanities	3
ENC1101	Composition I	Mathematics	3
PHY1001	Applied Physics I	Social Science	3
		Speech Communication	3
<b>MSSC Core Requirements Credit Hours</b>	<b>18</b>	ETI1110C	Intro to Quality Assurance 3
EET1084C	Introduction to Electronics	ETI1420	Process and Materials 3
ETD1320	Basic Introduction to CAD	ETI1701	Safety 3
ETM1010C	Measurement and Instrumentation		
<b>Technical Core Requirements Credit Hours* 15</b>		EET1015C	DC Circuits 3
CET1114C	Digital Techniques	EET1025C	AC Circuits 3
CET1117C	Microprocessors I	EET1141C	Linear Techniques I 3
<b>Specialized Courses Credit Hours</b>	<b>9</b>		
(choose one group of courses)			
<b>Biomedical Specialization</b>			
ETS2436C	Biomedical Instrumentation	HSC1531	Medical Terminology 3
ETS2940	Biomedical Engineering Technology Internship		
<b>OR</b>			
<b>Electronics Specialization</b>			
EET2142C	Linear Techniques II	ETS2542C	Programmable Logic Controllers (L) 3
EET2326C	Electronic Communications		

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**OR**

**Alternative Energy Specialization**

ETP2410C	Installation of Solar Photovoltaic (PV) Systems	3	ETS2542C	Programmable Logic Controllers (L)	3
ETP2402C	Introduction to Solar Photovoltaic (PV) Systems	3	<b>Total Program Credits</b>		<b>60</b>

**OR**

**CNC Machining Specialization**

PMT1203C	Introduction to Machining	3	PMT2214C	Advanced Machining II	3
PMT2213C	Advanced Machining I	3	<b>Total Program Credits</b>		<b>60</b>

**As part of the Associate of Science degree program outlined above, students will earn the following Technical Certificates:**

**Engineering Technology Support Specialist Technical Certificate  
Program Code 6314**

EET1084C	Introduction to Electronics	3	ETI1701	Safety	3
ETD1320	Basic Introduction to CAD	3	ETM1010C	Measurement and Instrumentation	3
ETI110C	Introduction to Quality Assurance	3	<b>Total Program Credit Hours</b>		<b>18</b>
ETI1420	Processes and Materials	3			

**Electronics Aide Technical Certificate  
Program Code 6322**

EET1015C	DC Circuits	3	ETS2542C	Programmable Logic Controllers	3
EET1025C	AC Circuits	3	<b>Total Program Credit Hours</b>		<b>12</b>
EET1141C	Linear Techniques I	3			

**Alternative Energy Systems Specialist Technical Certificate  
Program Code 6325**

CET1114C	Digital Techniques	3	ETP2402C	Introduction to Solar Photovoltaic Systems	3
EET1084C	Introduction to Electronics	3	ETP2410C	Installation of Solar Photovoltaic Systems	3
ETI110C	Introduction to Quality	3	<b>Total Program Credit Hours</b>		<b>18</b>
ETI1701	Safety	3			

**CNC Machinist Technical Certificate  
Program Code 6349**

ETI1701	Safety	3	PMT2214C	Advanced Machining II	3
PMT12X3C	Introduction to Machining	3	<b>Total Program Credit Hours</b>		<b>12</b>
PMT2213C	Advanced Machining I	3			

**Notes:**

\*Student may have to take MAT1033 or STA1001 based on placement score. The student's eligible for Federal Financial Aid for the MAT1033/STA1001 course may be limited.

Students who complete the AS in Engineering Technology program will successfully meet the college's Computer Competency requirement.

- Many courses have specific pre-requisite and co-requisite requirements that must be followed. Students are encouraged to consult the Course Information Table for a detailed list of all requisite requirements.

**Students are strongly encouraged to meet with an advisor to create an educational plan.**