

Degree Offered

Associate in Applied Science
Engineering Technology

Curriculum Code: ENG.TECH.AAS

Program Information

This program prepares students for entry-level employment in the fields of electronic, mechatronics, and manufacturing as well as transfer into baccalaureate programs leading to careers in fields in manufacturing, product development, management, and engineering technology across robotics, automotive, medical, and various industrial fields.

The flexibility offered by this program allows for entrance AS and transferability requirements into school with BS in engineering Technology programs. Students should choose their electives deliberately with the transfer destination in mind.

When You Graduate

AAS programs are designed for students who want to enter a career directly after graduating but those who change their plans find that most, sometimes all, of their Cumberland credits transfer to four-year colleges. Cumberland graduates have transferred to every university in New Jersey and scores of universities throughout America. The latest technology and learning tools support your education for a wide range of employment opportunities.

Engineering Technology, AAS

Program Requirements (60/63 credits)	Credits
Year 1, Fall Semester	
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> EG 101 Introduction to Engineering	2
<input type="checkbox"/> IT 102 Fundamentals of Engineering Tech Design	3
<input type="checkbox"/> MA 110 College Algebra	3
<input type="checkbox"/> IT 118 Tools and Measurements	1
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
	15
Year 1, Spring Semester	
<input type="checkbox"/> EN 102 English Composition II or EN 103 Technical Writing	3
<input type="checkbox"/> IT 112 Intro to Engineering Tech Lab	2
<input type="checkbox"/> IT 107 Circuits I	3
<input type="checkbox"/> IT 211 Advanced Engineering Tech Design	3
<input type="checkbox"/> MA 120 College Trigonometry	3
<input type="checkbox"/> IT 105 Blueprint Reading & Sketching	2
	16
Year 2, Fall Semester	
<input type="checkbox"/> IT 162 Quality Control	3
<input type="checkbox"/> PI 123 Fundamentals of Physics	4
<input type="checkbox"/> IT 218 Programmable Logic Controllers	3
<input type="checkbox"/> Program Elective*	3/4
<input type="checkbox"/> General Education Humanities Elective or General Education Social Science Elective	3
	16/17
Year 2, Spring Semester	
<input type="checkbox"/> EC 202 Principles of Microeconomics	3
<input type="checkbox"/> IT 116 Workplace Ethics	1
<input type="checkbox"/> General Education Diversity Elective	3
<input type="checkbox"/> Program Elective	3/4
<input type="checkbox"/> Program Elective	3/4
	13/15
Total Credits 60/63	

Upon completion of this program, students should be able to:

- Successfully employ test and measurement equipment.
- Develop a technical drawing in free hand and computer aided format.
- Locate information resources and successfully retrieve data for employment.
- Apply algebra to analyze simple electrical circuits.
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control.

Please see the next page for specified track and transfer information.