

**Rowan College of South Jersey
Academic Certificate in
Engineering Technology
Transfer Program Requirements
Suggested Four Semester Sequence of Courses**

This program prepares students for careers in computer-aided drafting. Experts predict that varied technical occupations will be among the hot careers during the next decade. There will be a 30 percent increase in higher-skilled, better-paying occupations in the technical fields, according to the U.S. Department of Labor. With the increased emphasis on technology, 80 percent of these jobs will require more than a high school diploma, but less than a four-year degree. Cumberland works closely with business and industry leaders to keep its Engineering technologies curricula current. Students who have completed the program will be able to:

- Apply algebra to analyze simple electrical circuits.
- Develop a technical drawing in free hand and computer aided format.
- Locate information resources and successfully retrieve data for employment.
- Successfully employ test and measurement equipment.

First Year

Fall Semester

___	EN 101	English Composition I	3
___	IT 102	Fundamentals of Engineering Tech Design	3
___	IT 105	Blueprint Reading & Sketching	2
___	IT 107	Circuits I	3
___	IT 112	Introduction to Engineering Technology Lab	2
___		General Education Business Elective OR	3
___		Computer Science Elective	3
			16

Spring Semester

___	EN 102 OR	English Composition II OR	3
___	EN 103	Technical Writing	3
___	IT 211	Advanced Engineering Tech Design	3
___	MA 110	College Algebra	3
___		Program Elective*	3
___		Program Elective*	3
			15

Total Minimum Credits: 31

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Required Core and Elective Courses

<u>Communications</u>		<u>Credits</u>
EN 101	English Composition I	3
EN 102 OR	English Composition II OR	
EN 103	Technical Writing	3
<u>Mathematics</u>		
MA 110	College Algebra	3
<u>Program Courses</u>		
IT 102	Fundamentals of Engineering Tech Design	3
IT 105	Blueprint Reading & Sketching	2
IT 107	Circuits I	3
IT 112	Introduction to Engineering Technology Lab	2
IT 211	Advanced Engineering Tech Design	3
	Program Elective*	3
	Program Elective*	3
	General Education Business Elective OR	
	Computer Science Elective	3
Total Minimum Credits		31

***Program Electives**

EG 101 Introduction to Engineering	2
EG 102 Graphics	2
EG 103 Engineering Laboratory	1
IT 111 Electronics	3
IT 162 Quality Control	3
IT 212 CAD III	3
IT 218 Programmable Logic Controllers	3
MA 205 Statistics	3
PI 104 Energy, the Environment, and Society	3

***Business and Computer Science Electives**

BU 106 Introduction to Management	3
BU 115 Introduction to Business	3
BU 209 Small Business Management	3
CS 101 Introduction to Microcomputers or Computer Science elective	3