Rowan College of South Jersey Electrical Engineering Technology Associate in Applied Science (A.A.S.) – Transfer

Program Requirements

This program prepares students for entry-level employment in the field of electrical engineering technology as well as transfer into baccalaureate programs leading to careers in manufacturing, product development, robotics, automotive, and various other industrial fields. The flexibility offered by this program allows for entrance directly into the workforce or transfer into a BS in Engineering Technology program. Students who have completed the program will be able to:

- · Conduct tests, measurements and experiments to analyze and interpret results
- Apply algebra to analyze simple electrical circuits
- Employ standardized industrial equipment such as Programmable Logic Controllers and apply the principles of quality control
- Understand industrial and commercial robotics technology
- Design solutions for technical problems and assist with the engineering design of systems, components or processes related to electrical engineering

Required Core and Elective Courses

Communica	ations	Credits
EN 101	English Composition I	3
EN 102	English Composition II	3
SP 203	Effective Speech	3
Humanities	or Social Science	
EC 201	Principles of Macroeconomics OR	3
EC 202	Principles of Microeconomics	3
Mathematic	<u>s</u>	
MA 121	Precalculus Mathematics	4
MA 130	Calculus I	4
<u>Science</u>		
PI 123	Fundamentals of Physics I	4
PI 124	Fundamentals of Physics II	4
Technology	<u>_</u>	
CS 212	C++ Programming	4
Engineering	1	
EG 101	Introduction to Engineering I	2
EG 103	Introduction to Engineering I Lab	2
EG 211	Introduction to Engineering II	1
EG 212	Introduction to Engineering II Lab	1
IT 107	Circuits I	3
IT 227	Circuits II	3
IT 205	Digital Electronics	3
IT 111	Electronics	4
IT 241	Robotics and Motion Control	3
IT 218	Programmable Logic Controllers	3
IT 244	Instrumentation and Measurement	3

Electrical Engineering Technology Associate in Applied Science (A.A.S.) Program Requirements

Four Semester Sequence of Courses

FIRST YEAR - Fall Semester

			Credits
	EN 101	English Composition I	3
	EG 101	Introduction to Engineering I	2
	IT 107	Circuits I	3
	MA 121	Precalculus Mathematics	4
	PI 123	Fundamentals of Physics I	4
Spring	Semester		16
	EN 102	English Composition II	3
	MA 130	Calculus I	4
	EG 103	Introduction to Engineering Lab 1	2
	PI 124	Fundamentals of Physics II	4
	CS 212	C++ Programming	4
			17
SECOND YEAR	R - Fall Semes	ter	
	EG 211	Introduction to Engineering II	1
	IT 205	Digital Electronics	3

	IT 205	Digital Electronics	3
	EC 201	Principles of Macroeconomics OR	3
	EC 202	Principles of Microeconomics	
	IT 227	Circuits II	3
	IT 111	Electronics	4
Spring	14		
opring	<u>Ocificator</u>		
	EG 212	Introduction to Engineering II Lab	1
	IT 241	Robotics and Motion Control	3
	IT 218	Programmable Logic Controllers	3
	SP 203	Effective Speech	3
	IT 244	Instrumentation & Measurement	3
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TOTAL MINIMUM CREDITS: 60