

**Rowan College of South Jersey
Associate in Science (A.S.) in Engineering
Transfer Program Requirements
Suggested Four Semester Sequence of Courses**

This program is designed to meet the demands of an increasing number of people in the community who are interested in preparing for a career in the engineering field. Students who have completed the program will be able to:

- Analyze and understand engineering designs.
- Deliver an effective and informative professional engineering presentation.
- Demonstrate an understanding of engineering materials used in different fields.

First Year

Fall Semester

		Credits
___EG 101	Introduction to Engineering I	2
___PI 141	General Physics I	4
___EN 101	English Composition I	3
___MA 130	Calculus I	4
___	General Education Humanities Elective	3
		16

Spring Semester

___EG 103	Introduction to Engineering I Lab	2
___PI 142	General Physics II	4
___EN 102	English Composition II	3
___MA 140	Calculus II	4
___	General Education Social Science Elective OR	3
___	General Education Humanities Elective	
___	Program Elective*	3/4
		19/20

Second Year

Fall Semester

___EG 211	Introduction to Engineering II	1
___MA 210	Calculus III	4
___CH 101	General Chemistry I	4
___SP 203	Effective Speech	3
___	Program Elective*	3/4
		15/16

Spring Semester

___CS 212	C++ Programming	4
___EG 212	Introduction to Engineering II Lab	1
___MA 220	Differential Equations	4
___MA 207	Linear Algebra for Engineers	1
___EC 201 OR	Principles of Macroeconomics OR	3
___EC 202	Principles of Microeconomics	
___	Program Elective*	3/4
		16/17

Total Minimum Credits: 66

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Required Core and Elective Courses

<u>Communications</u>		<u>Credits</u>
EN 101	English Composition I	3
EN 102	English Composition II	3
SP 203	Effective Speech	3
<u>Mathematics</u>		
MA 130	Calculus I	4
MA 140	Calculus II	4
MA 207	Linear Algebra for Engineers	1
MA 210	Calculus III	4
MA 220	Differential Equations	4
<u>Science</u>		
PI 141	General Physics I	4
PI 142	General Physics II	4
CH 101	General Chemistry	4
<u>Social Science/Humanities</u>		
EC 201 OR	Principles of Macroeconomics OR	
EC 202	Principles of Microeconomics	3
	General Education Social Science Elective OR	
	General Education Humanities Elective	3
<u>Humanities</u>		
	General Education Humanities Elective	3
<u>Program Courses</u>		
CS 212	C++ Programming	4
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
	Program Elective*	9-12
Total Minimum Credits		66

***PROGRAM ELECTIVES**

Mechanical Engineering Track

EG 201 Statics	3
EG 202 Dynamics	3
EG 213 Principles of Electrical Circuit Analysis 4cr or EG 203 Strength of Materials	3

Chemical Engineering Track

CH 102 Chemistry II	4
CH 201 Organic Chemistry I	4
CH 202 Organic Chemistry II	4

Electrical and Computer Engineering Track

CS 216 Intermediate Java	
EG 121 Digital Electronics	3
EG 122 Electronics for Engineers	3
EG 213 Principles of Electrical Circuit Analysis	4

Civil Engineering Track:

EG 203 Strength of Materials	
EG 102 Graphics	3
EG 201 Statics	3
EG 202 Dynamics	3