



ENG.AS; CIP Code 14.0102

### *Associate in Science (A.S.) – Transfer*

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.

#### When You Graduate

AS programs are primarily designed for students who plan to transfer as juniors at four-year colleges and universities. RCSJ graduates have obtained bachelor's degrees and beyond from every college in New Jersey and scores of colleges and universities throughout America. RCSJ has transfer agreements with a number of four-year colleges and universities.

This program prepares students for a career in the engineering field. Engineering uses the physical science and mathematics to design and develop products and systems. It uses advanced techniques to find solutions to technical problems and other complex issues.

Are you ready to get started  
at RCSJ? Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/enroll)  
and complete the interest  
form.

## Engineering, A.S.

### FIRST YEAR - Fall Semester

<input type="checkbox"/> EG 101 Introduction to Engineering I	2
<input type="checkbox"/> PI 141 General Physics I	4
<input type="checkbox"/> EN 101 English Composition I	3
<input type="checkbox"/> MA 130 Calculus I	4
<input type="checkbox"/> General Education Humanities Elective	3
	<hr/> 16

### Spring Semester

<input type="checkbox"/> EG 103 Introduction to Engineering I Lab	2
<input type="checkbox"/> PI 142 General Physics II	4
<input type="checkbox"/> EN 102 English Composition II	3
<input type="checkbox"/> MA 140 Calculus II	4
<input type="checkbox"/> General Education Social Science Elective or General Education Humanities Elective	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/> 19-20

### SECOND YEAR - Fall Semester

<input type="checkbox"/> EG 211 Introduction to Engineering II	1
<input type="checkbox"/> MA 210 Calculus III	4
<input type="checkbox"/> CH 101 General Chemistry I	4
<input type="checkbox"/> SP 203 Effective Speech	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/> 15-16

### Spring Semester

<input type="checkbox"/> CS 212 C++ Programming	4
<input type="checkbox"/> EG 212 Introduction to Engineering II Lab	1
<input type="checkbox"/> MA 220 Differential Equations	4
<input type="checkbox"/> MA 207 Linear Algebra for Engineers	1
<input type="checkbox"/> EC 201 Principles of Macroeconomics or EC 202 Principles of Microeconomics	3
<input type="checkbox"/> Program Elective*	3-4
	<hr/> 16-17

**TOTAL MINIMUM CREDITS: 66**

#### \*Program Electives

##### Mechanical Engineering Track

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

##### Chemical Engineering Track

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

##### Electrical and Computer Engineering Track

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

##### Civil Engineering Track:

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