



Certificates of Achievement

The Certificates of Achievement give students the knowledge and skills needed for employment in their respective fields. They will provide students with a concentration of courses that can be taken in conjunction with those required for the A.S. Engineering Science degree program. If the student decides to continue with the remaining course requirements leading to an associate degree in Engineering Science, the certificate will allow them to take the additional courses needed for transfer and can be used as Program electives.

Program Contact

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

Engineering Science, COAs

Biomedical Engineering

[COA-CACS; CIP Code 15.1001]

Core Courses	Credits
<input type="checkbox"/> BIO 101 General Biology I	3
<input type="checkbox"/> CHM 112 General Chemistry II	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> PHY 202 Physics II	3
<input type="checkbox"/> SPE 101 Oral Communication	3

TOTAL CREDITS: 18

Civil Engineering

[COA-CACE; CIP Code 14.0101]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> ENR 207 Engineering Materials	3
<input type="checkbox"/> ENR 211 Engineering Statics	3
<input type="checkbox"/> ENR 212 Mechanics of Materials	3
<input type="checkbox"/> ENR 213 Dynamics	3
<input type="checkbox"/> GEO 115 Geographical Information Systems	3
<input type="checkbox"/> CET 108 Introduction to Surveying	3
<input type="checkbox"/> DFT 103 CADD I (AutoCAD)	3

TOTAL CREDITS: 27

Chemical Engineering

[COA-CACH; CIP Code 14.0101]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> CHM 201 Organic Chemistry I	4
<input type="checkbox"/> CHM 202 Organic Chemistry II	4

TOTAL CREDITS: 20

Electrical Engineering

[COA-; CIP Code 15.]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> CSC 220 Data Structures and Algorithms	4
<input type="checkbox"/> ENR 108 Digital Electronics for Engineering	3
<input type="checkbox"/> ENR 218 Principles of Electrical Circuit Analysis	4

TOTAL CREDITS: 17

Mechanical Engineering

[COA-CAMC; CIP Code 14.0101]

Core Courses	Credits
<input type="checkbox"/> SPE 101 Oral Communication	3
<input type="checkbox"/> MAT 202 Linear Algebra	3
<input type="checkbox"/> ENR 207 Engineering Materials	3
<input type="checkbox"/> ENR 211 Engineering Statics	3
<input type="checkbox"/> ENR 212 Mechanics of Materials	3
<input type="checkbox"/> ENR 213 Dynamics	3

TOTAL CREDITS: 18