



[ENGRMECAAS; CIP Code 15.0805]

Associate in Applied Science (A.A.S.) – Career

This program prepares students for entry level employment in the field of mechanical engineering technology as well as transfer into baccalaureate programs leading to careers 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 Mechanical Engineering Technology program.

Program Learning Outcomes

Students who have completed the program should be able to:

- Apply knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities
- Apply knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge • Conduct standard tests and measurements, and to conduct, analyze, and interpret experiments
- Identify, analyze, and solve narrowly defined engineering technology problems
- Apply written, oral, and graphical communication in both technical and non-technical environments with use of appropriate technical literature.

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

Mechanical Engineering Technology, A.A.S.

FIRST YEAR – Fall Semester

☐ ENGL 101 English Composition I or ENGL 101E Enhanced English Composition I	3–4
☐ ENGR 102 First Year Engineering Clinic I	2
☐ MATH 120 Pre-Calculus and Mathematical Analysis or MATH 121 Pre-calculus Mathematics	4
☐ PHYS 123 General Physics I	4
☐ ETEC 103 CADD I (AutoCAD)	3
	16–17

Spring Semester

☐ ENGL 102 English Composition II	3
☐ MATH 130 Calculus I	4
☐ ENGR 103 First Year Engineering Clinic II	2
☐ PHYS 124 General Physics II	4
☐ ETEC 107 Circuits I	3
	16

SECOND YEAR – Fall Semester

☐ ENGR 201 Second Year Engineering Clinic I	1
☐ ENGR 211 Engineering Statics	3
☐ ECON 101 Principles of Economics (Macro) or ECON 102 Principles of Economics (Micro)	3
☐ CHEM 101 General Chemistry I	4
☐ ETEC 160 CNC Programming	4
	15

Spring Semester

☐ ENGR 202 Second Year Engineering Clinic II	1
☐ ENGR 213 Engineering Dynamics	3
☐ ETEC 218 Programmable Logic Controller	3
☐ SPEH 101 Effective Speech	3
☐ ENGR 200 MATLAB Programming	3
	13

TOTAL MINIMUM CREDITS: 60