



[ENGRTECCER; CIP Code 15.0612]

Certificate Program

This program prepares students for careers in computer-aided drafting. Experts predict that varied technical occupations will be among the hot careers during the next decade. There will be a 30 percent increase in higher-skilled, better-paying occupations in the technical fields, according to the U.S. Department of Labor. With the increased emphasis on technology, 80 percent of these jobs will require more than a high school diploma, but less than a four-year degree. RCSJ works closely with business and industry leaders to keep its Engineering technologies curricula current.

Program Learning Outcomes

Students who have completed the program should be able to:

- Apply algebra to analyze simple electrical circuits
- Develop a technical drawing in free hand and computer aided format
- Locate information resources and successfully retrieve data for employment
- Successfully employ test and measurement equipment

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

Engineering Technology, CERT

FIRST YEAR — Fall Semester

☐ ENGL 101 English Composition I or ENGL 101E Enhanced English Composition I	3-4
☐ ETEC 102 Fundamentals of Engineering Technology	3
☐ ETEC 105 Blueprint Reading & Sketching	2
☐ ENGR 102 First Year Engineering Clinic I	3
☐ ____ Business or Computer Science Elective	3
	14-15

Spring Semester

☐ ENGL 102 English Composition II or COMM 103 Technical and Scientific Writing	3
☐ ETEC 113 CADD II Advanced AutoCAD	3
☐ MATH 110 Algebra & Trigonometry or MATH 110 Algebra and Trigonometry	4
☐ ____ Program Elective	3
☐ ____ Program Elective	3
	16

TOTAL MINIMUM CREDITS: 30

Program Electives

ENGR 110 Engineering Graphics
 ETEC 111 Electronics
 ETEC 162 Quality Control
 ETEC 212 CAD III: 3D Modeling
 ETEC 218 Programmable Logic Controllers
 MATH 103 Statistics I
 PHYS 104 Energy, the Environment and Society

Business and Computer Science Electives

BUSN 200 Principles of Management
 BUSN 101 Introduction to Business
 BUSN 201 Small Business Management
 CSCI 101 Introduction to Microcomputers