



[ENGRELCERT; CIP Code 15.0399]

Certificate Program

This program prepares students for employment in a wide range of businesses and industries. 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.

Program Learning Outcomes

Students who have completed the program should be able to:

- Successfully employ test and measurement equipment
- Locate information resources and successfully retrieve data for employment
- Apply algebra to analyze simple electrical circuits
- Employ standardized industrial equipment such as PLC and be capable to apply the principles of quality control

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

Engineering Technology/ Electronics Technology, CERT

FIRST YEAR – Fall Semester

☐ ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3-4
☐ MATH 114 College Algebra <i>or</i> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
☐ ETEC 218 Programmable Logic Controller	3
☐ ETEC 107 Circuits I	3
☐ ENGR 102 First Year Engineering Clinic I	2
	15-16

Spring Semester

☐ ENGL 102 English Composition II <i>or</i> ENGL 103 Technical Writing	3
☐ ENGR 108 Digital electronics for Engineers	3
☐ Program elective ¹	3-4
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	13-14

TOTAL MINIMUM CREDITS: 30

Program Electives¹

CSCI 121 Introduction to Programming	4
MATH 118 College Trigonometry	3
PHYS 104 Energy, The Environment and Society	3