



[ENGRSRAAS; CIP Code 15.0201]

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

The Surveying Engineering Technologies Program is for students interested in surveying engineering related careers rather than pure engineering science. It is based on understanding the application of surveying engineering principles. The goal of this program is for students to develop the necessary knowledge and skills for gainful employment as land survey technicians and apprentices or transfer to a four-year Engineering Technologies program. The program includes a balance of technologies, science, mathematics, and general education courses to complete their degree and become more effective technologists in the field.

Program Learning Outcomes

- Students who have completed the program should be able to:
- Demonstrate and apply the basic principles of I route and construction surveying
 - Utilize modern measurement technologies to acquire spatial data
 - Employ industry-standard software to solve technical problems

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

Surveying Engineering Technologies, A.A.S.

FIRST YEAR – Fall Semester

<input type="checkbox"/> ENGL 101 English Composition I <i>or</i> ENGL 101E Enhanced English Composition I	3–4
<input type="checkbox"/> MATH 120 Pre-Calculus and Mathematical Analysis <i>or</i> MATH 121 Pre-calculus Mathematics	4
<input type="checkbox"/> CSCI 131 Intermediate Programming	4
<input type="checkbox"/> GEGR 115 Introduction to Geographic Information Systems	3
	14–15

Spring Semester

<input type="checkbox"/> ENGL 102 English Composition II	3
<input type="checkbox"/> ETEC 103 CADD I(AutoCAD)	3
<input type="checkbox"/> MATH 103 Statistics I	3
<input type="checkbox"/> GEOL 111 Earth Science: Land and Sea	4
<input type="checkbox"/> CETE 108 Introduction to Surveying	3
	16

SECOND YEAR – Fall Semester

<input type="checkbox"/> GEOL 112 Earth Science: Air and Space	4
<input type="checkbox"/> CETE 206 Evidence and Procedures for Boundary Location	3
<input type="checkbox"/> ETEC 113 CADD II Advanced AutoCAD	3
<input type="checkbox"/> MATH 130 Calculus I	4
	14

Spring Semester

<input type="checkbox"/> SPEH 101 Effective Speech	3
<input type="checkbox"/> PHIL 102 Ethics	3
<input type="checkbox"/> MATH 140 Calculus II	3
<input type="checkbox"/> CETE 208 Route and Construction Surveying	4
<input type="checkbox"/> ____ ____ Technical Elective ¹	3
	16

TOTAL MINIMUM CREDITS: 60

Program Notes

The 2+2 pathway is a new initiative slightly different from a traditional transfer. Students interested in earning their bachelor's degree in one of these programs must start at RCSJ for the first two years. The last two years are taught by Rowan University faculty, but some classes will be held at RCSJ.

Technical Electives¹

ISCC 211 Cooperative Education Experience, CETE 201 Codes Contracts and Specifications; CETE 207 Hydraulics; ETEC 212 3-D Modeling.
Note that the prerequisite for ETEC 212 3-D Modeling is ETEC 216 Architectural and Civil Planning