



[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

Surveying Engineering Technologies, A.A.S.

FIRST YEAR – Fall Semester

☐ ENGL 101 English Composition I or ENGL 101E Enhanced English Composition I	3–4
☐ MATH 120 Pre-Calculus and Mathematical Analysis or MATH 121 Pre-Calculus Mathematics	4
☐ CSCI 131 Intermediate Programming	4
☐ GEGR 115 Introduction to Geographic Information Systems	3
	14–15

Spring Semester

☐ ENGL 102 English Composition II	3
☐ ETEC 103 CADD I(AutoCAD)	3
☐ MATH 103 Statistics I	3
☐ GEOL 111 Earth Science: Land and Sea	4
☐ CETE 108 Introduction to Surveying	3
	16

SECOND YEAR – Fall Semester

☐ GEOL 112 Earth Science: Air and Space	4
☐ CETE 206 Evidence and Procedures for Boundary Location	3
☐ ETEC 113 CADD II Advanced AutoCAD	3
☐ MATH 130 Calculus I	4
	14

Spring Semester

☐ SPEH 101 Effective Speech	3
☐ PHIL 102 Ethics	3
☐ MATH 140 Calculus II	4
☐ CETE 208 Route and Construction Surveying	3
☐ ____ ____ 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 Internship Capstone, CETE 201 Codes Contracts and Specifications;
CETE 207 Hydraulics; ETEC 212 CADD III: 3D Modeling.

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