

Program Requirement Sheet

Rowan College of South Jersey Surveying Engineering Technology Associate in Applied Science (A.A.S.) – Transfer

The Surveying Engineering Technology Program is for students interested in engineering related careers rather than pure engineering science. It is based on understanding the application of 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 Surveying Engineering Technology 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.

Students who have completed the program will be able to:

- Demonstrate and apply the basic principles of land, route, and construction surveying
- Utilize modern measurement technologies to acquire spatial data
- Employ industry-standard software to solve technical problems

Required Core and Elective Courses

<u>Written and Oral Communications</u>		<u>Credits</u>
ENG 101	English Composition I	3
ENG 102	English Composition II	3
SPE 101	Oral Communications	3
<u>Math/Science/Technology</u>		
MAT 103	Statistics	3
MAT 107	Pre-Calculus and Mathematical Analysis	4
MAT 108	Calculus I	4
MAT 122	Calculus II	4
PHY 111	Earth Science: Land and Sea	4
PHY 112	Earth Science: Air and Space	4
CSC 111	Intermediate Programming	4
GEO 115	Introduction to Mapping and GIS	3
<u>Social Science or Humanities</u>		
PHI 104	Ethics	3
<u>Technical</u>		
CET 108	Intro to Surveying	3
CET 206	Evidence & Procedures for Boundary Location	3
CET 208	Route and Construction Surveying	3
DFT 103	CADD I	3
DFT 113	CADD II	3
____	Technical elective	3-4
		Total Credits: 60

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Surveying Engineering Technology Associate in Applied Science Program Requirements Four Semester Sequence of Courses

<u>FIRST YEAR - Fall Semester</u>		<u>Credits</u>
ENG 101	English Composition I	3
MAT 107	Pre-Calculus and Mathematical Analysis	4
CSC 111	Intermediate Programming	4
GEO 115	Intro to Mapping and GIS	3
Total:		14
<u>Spring Semester</u>		
ENG 102	English Composition II	3
DFT 103	CADD I	3
MAT 103	Statistics	3
PHY 111	Earth Science: Land and Sea	4
CET 108	Intro to Surveying	3
Total:		16
<u>SECOND YEAR - Fall Semester</u>		
PHY 112	Earth Science: Air and Space	4
CET 206	Evidence & procedures for Boundary Location	3
DFT 113	CADD II	3
MAT 108	Calculus I	4
Total:		14
<u>Spring Semester</u>		
SPE 101	Oral Communications	3
PHI 104	Ethics	3
MAT 122	Calculus II	4
CET 208	Route and Construction Surveying	3
_____	Technical Elective	3
Total:		16
<u>TOTAL MINIMUM CREDITS:</u>		60

Technical electives: CEP 211 Cooperative Education Experience, CET 201 Codes Contracts and Specifications; CET 207 Hydraulics; DFT 203 3-D Modeling. Note that the prerequisite for DFT 203 3-D Modeling is DFT 211 Architectural and Civil Planning