

*Associate of Applied Science Civil Engineering Technology*

*Courses taken  
At Mid-State Technical College*

*Equivalent courses  
At St. Cloud State University*

**GENERAL EDUCATION**

10801195 Written Communication (3)  
10809143 Microeconomics (3)  
10804113 College Technical Mathematics (3)  
10804114 College Technical Mathematics (2)  
10804116 College Technical Mathematics (4)  
10806143 College Physics 1 (3)  
10809198 Intro to Psychology (3)

ENGL 100 Intro to Expository Writing (3)  
ECON 201 Introduction to Economics (3)  
MATH 112 Technical Mathematics (3)  
MATH 113 Trigonometry (2)  
  
PHYS 100 Preparatory Physics (3)  
PSY 115 Introduction to Psychology (3)

*Total General Education Transfer (17)*

**SURVEYING**

10606105 Intro to Surveying (2)  
10607156 Surveying – Total Station (3)  
10607171 Highway Surveying (2)  
10607174 GPS for Surveyors (2)

GEOG 199 Surveying I (9)

**SURVEYING-RELATED**

10606105 Intro to AutoCAD (2)  
10103106 Microsoft Office Beginning (3)  
10607150 Civil Engineering Drafting I (3)  
10607160 Civil Engineering Drafting II (3)  
10607166 Construction Est. and Management (3)  
10607180 Civil Engineering Capstone (3)

GEOG 299 Surveying II (12)

*Technical University Electives Transferred: 21*

**Transfer Total in General Education and Technical University Electives: 38**

**Notes:**

Students must be a graduate and have a grade of C or higher in order for any course to be considered for transfer.

\*Students will be evaluated based on their transcripts as to the actual General Education courses taken at Mid-State Technical College [Course Number and Name] as an equivalent course when transferring to SCSU. The student must complete SCSU General Education requirements.

## Appendix B: Courses to be taken at St. Cloud State University

### For the Bachelor of Science in Land Surveying and Mapping Science degree

<u>Course number</u>	<u>Course name</u>
GEOG 216	Principles of Geographic Information Science (3)
GEOG 316	Geographic Information Systems (3)
GEOG 335	Land Surveying (3)
GEOG 336	Control and Geodetic Surveying (3)
GEOG 350	Introduction to Remote Sensing (3)
GEOG 394	Urban Planning (3)
GEOG 416	Techniques in GIS (3)
GEOG 406	Thematic Cartography (3)
GEOG 433	Cadastral Surveying (3)
GEOG 435	Boundary Law (3)
GEOG 436	GPS/GIS Integration (3)
GEOG 438	Geodesy and Survey Adjustments (3)
GEOG 439	Surveying Seminar (3)
GEOG 455	Urban Site Development (3)
GEOG 462	Concepts of Spatial Analysis (3)
STAT 229	Statistics for the Physical Sciences (3)
MATH 221	Calculus and Analytic Geometry I (5)
MATH 222	Calculus and Analytic Geometry II (4)

Transfer credits in General Education and Technical University Electives: 38

Additional SCSU General Education credits: 24

General Education should include and additional 6 credits (to complete the 9 credits) in basic sciences from the ABET accreditation requirements (Astronomy, Computing, Chemistry, or Biology) and 3 credits in mathematics (MATH 112 in preparation for MATH 221 Calculus).

Credits to be taken at SCSU in the Land Surveying and Mapping Science major: 60

Total credits to be taken at St. Cloud State University: 84

**With an AAS degree in Civil Engineering Technology from Mid-State Technical College, the student will be required to complete an additional 84 credits for a total of 122 credits for the Bachelor of Science degree from St. Cloud State University.**