

PROGRAM PLANNING GUIDE

**GEOMATICS TECHNOLOGY
A40420**

Replaces Curriculum Schedule with Revision Date: FA2016

Date Revised: FA2017

CURRICULUM BY SEMESTER

| Course No. | | | Course Title | | | Hours Per Week | | |
|-----------------|------|--|---------------------------------------|--|--|----------------|-----|---------|
| | | | | | | Class | Lab | Credits |
| Fall Semester 1 | | | | | | | | |
| ACA | 115 | | Success & Study Skills | | | 0 | 2 | 1 |
| CEG | 115 | | Introduction to Tech & Sustainability | | | 2 | 3 | 3 |
| CEG | 115A | | Introduction to Tech & Sust. Lab | | | 0 | 3 | 1 |
| SRV | 110 | | Surveying I | | | 2 | 6 | 4 |
| MAT | 121 | | Algebra/Trigonometry I * | | | 2 | 2 | 3 |
| PSY | 118 | | Interpersonal Psychology | | | 3 | 0 | 3 |

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|-------------------|-----|--|--------------------------------------|--|--|---|---|---|
| Spring Semester 1 | | | | | | | | |
| CEG | 111 | | Introduction to GIS/GNSS | | | 2 | 4 | 4 |
| CEG | 151 | | CAD for Engineering Technology | | | 2 | 3 | 3 |
| SRV | 111 | | Surveying II | | | 2 | 6 | 4 |
| COM | 120 | | Intro to Interpersonal Communication | | | 3 | 0 | 3 |
| ENG | 111 | | Writing and Inquiry | | | 3 | 0 | 3 |

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|-------------------|-----|--|--------------------------|--|--|---|---|---|
| Summer Semester 1 | | | | | | | | |
| CIV | 125 | | Civil/Surveying CAD | | | 1 | 6 | 3 |
| SRV | 260 | | Field & Office Practices | | | 1 | 3 | 2 |

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|-----------------|-----|--|-----------------------------|--|--|---|---|---|
| Fall Semester 2 | | | | | | | | |
| CEG | 211 | | Hydrology & Erosion Control | | | 2 | 3 | 3 |
| GIS | 121 | | Georeferencing and Mapping | | | 2 | 2 | 3 |
| SRV | 210 | | Surveying III | | | 2 | 6 | 4 |
| SRV | 250 | | Advanced Surveying | | | 2 | 6 | 4 |
| HUM | 110 | | Technology and Society | | | 3 | 0 | 3 |

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|-------------------|-----|--|--------------------------------|--|--|---|---|---|
| Spring Semester 2 | | | | | | | | |
| CEG | 230 | | Subdivision Planning & Design | | | 1 | 6 | 3 |
| GIS | 246 | | Principles of Property Mapping | | | 2 | 2 | 3 |
| SRV | 220 | | Survey Law | | | 2 | 2 | 3 |
| SRV | 240 | | Topo/Site Surveying | | | 2 | 6 | 4 |
| | | | Major Electives Group 1 | | | | | 3 |

| | | | | | | | | |
|-------------------|--|--|-------------------------|--|--|--|--|---|
| Summer Semester 2 | | | | | | | | |
| | | | Major Electives Group 2 | | | | | 2 |

Graduation Requirement Credit Hours: 72

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| MAJOR ELECTIVES | | | | | |
|------------------------|-----|-----------------------------------|-----------------------|------------|----------------|
| | | | Hours Per Week | | |
| Course No. | | Course Title | Class | Lab | Credits |
| Major Electives 1 | | Credit Hours Needed: | 3 | | |
| CEG | 210 | Construction Materials & Methods | 2 | 3 | 3 |
| CEG | 235 | Project Management and Estimating | 2 | 3 | 3 |
| EGR | 251 | Statics | 2 | 2 | 3 |
| GIS | 231 | Geo Positioning System Methods | 1 | 4 | 3 |

| | | | Hours Per Week | | |
|-------------------|-----|---------------------------|-----------------------|------------|----------------|
| Course No. | | Course Title | Class | Lab | Credits |
| Major Electives 2 | | Credit Hours Needed: | 2 | | |
| CSC | 121 | Python Programming | 2 | 3 | 3 |
| CSC | 134 | C++ Programming | 2 | 3 | 3 |
| CSC | 139 | Visual BASIC Programming | 2 | 3 | 3 |
| CST | 131 | OSHA/Safety/Certification | 2 | 2 | 3 |
| WBL | 112 | Work-based Learning I | 0 | 20 | 2 |

* May substitute MAT 171, MAT 172, or MAT 271