

**PROGRAM PLANNING GUIDE**

**GEOMATICS TECHNOLOGY  
A40420**

Replaces Curriculum Schedule with Revision Date: FA2020

Date Revised: FA2021

**CURRICULUM BY SEMESTER**

| Course No. |      | Course Title                   | Hours Per Week |     |         |
|------------|------|--------------------------------|----------------|-----|---------|
|            |      |                                | Class          | Lab | Credits |
| Semester 1 |      |                                |                |     |         |
| CEG        | 151* | CAD for Engineering Technology | 2              | 3   | 3       |
| EGR        | 115  | Intro to Technology            | 2              | 3   | 3       |
| EGR        | 115A | Intro to Technology Lab        | 0              | 3   | 1       |
| SRV        | 110  | Surveying I                    | 2              | 6   | 4       |
|            |      | Math Elective                  |                |     | 3       |

|            |     |                              |   |   |   |
|------------|-----|------------------------------|---|---|---|
| Semester 2 |     |                              |   |   |   |
| CEG        | 111 | Introduction to GIS and GNSS | 2 | 4 | 4 |
| CIV        | 125 | Civil/Surveying CAD          | 1 | 6 | 3 |
| ENG        | 111 | Writing and Inquiry          | 3 | 0 | 3 |
| SRV        | 111 | Surveying II                 | 2 | 6 | 4 |
| UAS        | 111 | Unmanned Aircraft Systems    | 3 | 0 | 3 |

|            |     |   |   |   |   |
|------------|-----|---|---|---|---|
| Semester 3 |     |   |   |   |   |
| ENG        | 112 | Writing and Research in the Disciplines | 3 | 0 | 3 |
| UAS        | 150 | UAS Flight Simulation                   | 2 | 3 | 3 |

|            |     |                                    |   |   |   |
|------------|-----|------------------------------------|---|---|---|
| Semester 4 |     |                                    |   |   |   |
| CEG        | 211 | Hydrology & Erosion Control        | 2 | 3 | 3 |
| GIS        | 121 | Georeferencing & Mapping           | 2 | 2 | 3 |
| SRV        | 210 | Surveying III                      | 2 | 6 | 4 |
| SRV        | 250 | Advanced Surveying                 | 2 | 6 | 4 |
| UAS        | 230 | UAS Aerial Photography and Surveys | 2 | 2 | 3 |

|            |     |                               |   |   |   |
|------------|-----|-------------------------------|---|---|---|
| Semester 5 |     |                               |   |   |   |
| CEG        | 230 | Subdivision Planning & Design | 1 | 6 | 3 |
| PHI        | 240 | Introduction to Ethics        | 3 | 0 | 3 |
| PSY        | 150 | General Psychology            | 3 | 0 | 3 |
| SRV        | 220 | Surveying Law                 | 2 | 2 | 3 |
| SRV        | 240 | Topo/Site Surveying           | 2 | 6 | 4 |

|            |  |                |  |  |   |
|------------|--|----------------|--|--|---|
| Semester 6 |  |                |  |  |   |
|            |  | Major Elective |  |  | 2 |

**Graduation Requirement Credit Hours:** 72

**PROGRAM PLANNING GUIDE**

| <b>MATH ELECTIVES</b> |     |                        |                       |            |                |
|-----------------------|-----|------------------------|-----------------------|------------|----------------|
|                       |     |                        | <b>Hours Per Week</b> |            |                |
| <b>Course No.</b>     |     | <b>Course Title</b>    | <b>Class</b>          | <b>Lab</b> | <b>Credits</b> |
| Credit Hours Needed:  |     |                        | 3                     |            |                |
| MAT                   | 121 | Algebra/Trigonometry I | 2                     | 2          | 3              |
| MAT                   | 171 | Precalculus Algebra    | 3                     | 2          | 4              |

| <b>MAJOR ELECTIVES</b> |     |                                      |                       |            |                |
|------------------------|-----|--------------------------------------|-----------------------|------------|----------------|
|                        |     |                                      | <b>Hours Per Week</b> |            |                |
| <b>Course No.</b>      |     | <b>Course Title</b>                  | <b>Class</b>          | <b>Lab</b> | <b>Credits</b> |
| Credit Hours Needed:   |     |                                      | 2                     |            |                |
| CEG                    | 210 | Construction Materials & Methods     | 2                     | 3          | 3              |
| CEG                    | 235 | Project Management and Estimating    | 2                     | 3          | 3              |
| ISC                    | 121 | Environmental Health & Safety        | 3                     | 0          | 3              |
| MAT                    | 172 | Precalculus Trigonometry             | 3                     | 2          | 4              |
| WBL                    | 112 | Work-Based Learning I                | 0                     | 20         | 2              |
| WBL                    | 120 | Career Readiness, Explor., & Employ. | 2                     | 3          | 3              |

\*DFT 151 may substitute for CEG 151