

**Bachelor of Science in Engineering Technology: CAD-GIS emphasis**  
**Worksheet & Pre-Requisites 12-13**

| <b>Course #</b>   | <b>Course title</b>                        | <b>cr</b> | <b>Offered</b> | <b>Pre -requisites</b>         |
|---|--|-----------|----------------|--------------------------------|
| <b>CORE *see also GEN ED</b>                                  |  |           |                |                                |
| CCET 4960 [or GEOG 4500]                                      | Capstone Project [or GIS Research Project] | 3         | F/S            | Instructor Permission          |
| CSIS 1410 or GEOG 2920  | Fundamentals of Programming                | 3         | F/S            | CSIS 1400                      |
| ENGR 1030 in lieu of TECH 3000                                | Computer Aided Drafting                    | 3         | S              |                                |
| GEOG 3110/3115  | Intro to Remote Sensing                    | 3/1       | S odd          |                                |
| <b>CAD/GIS Composite</b>                                      |  |           |                |                                |
| CCET 1010   | Engineering Technology Graphics            | 3         | F/S            |                                |
| CCET 1040   | Computer Aided Design                      | 3         | F/S            |                                |
| CCET 3630 or GEOG 3110  | Fundamentals of CATIA (Remote Sensing)     | 3         | F              | CCET 1040                      |
| CCET 3670   | Civil Design                               | 3         | S              | CCET 1010 & 1040               |
| EET 2750  | PC Hardware                                | 3         | F/S            |                                |
| ENGR 2010   | Statics                                    | 3         | F              | PHYS 2010 Advisor must sign in |
| ENGR 2240/45  | Surveying & Global Positioning/lab         | 2/1       | F              | MATH 1060 & co req             |
| GEOG 2900   | GPS Theory, Techniques & Methods           | 2         | S              | Instructor Permission          |
| GEOG 3500/05  | Intro to Cartography/lab                   | 3/1       | F-odd          | Co reqs                        |
| GEOG 3550/55  | Principles of GIS/lab                      | 3/2       | F              | Co reqs                        |
| GEOG 4150   | Advanced GIS Analysis Methods              | 3         | S              | GEOG 3550                      |
| <b>Electives (3 hrs. from the below)</b>                      |  |           |                |                                |
| TECH 4893   | Technology Internship                      | 3         | F/S            | Approval of Faculty            |
| GEOG 4893   | GIS Internship                             | 3         | F/S            | Approval of Faculty            |
| GEOG 3993   | Undergraduate Research in Geography/GIS    | 3         | Varies         | Approval of Faculty            |
| <b>Free electives (need to complete 40 upper div credits)</b> |  | 23 total  |                |                                |
| UNIV 1010   | Introduction to Experiential Education     | 1         | F/S/M          |                                |
| UNIV 3925   | EER Proposal                               | 1         | F/S/M          |                                |
| UNIV 4925   | Synthesis and Reflection                   | 1         | F/S/M          |                                |
| <b>GENERAL EDUCATION</b>                                      |  |           |                |                                |
| ENGL 1010   | Intro to Academic Writing                  | 3         |                |                                |
| ENGL 2010   | Intermediate Writing                       | 3         |                |                                |
| <b>*MATH 1210</b>   | <b>Calculus I</b>                          | 4         | F/S/M          | MATH 1050 & MATH 1060          |
| LM 1010   | Information Literacy                       | 1         |                |                                |
| American Institution  |  | 3         |                |                                |
| CSIS 1000   | Intro to Computer Applications & Internet  | 3         |                |                                |
| FINE ARTS:  |  | 3         |                |                                |
| <b>*HUMANITIES: COMM 1010</b>                                 | <b>Introduction to Communication</b>       | 3         | F/S/M          |                                |
| SOCIAL SCIENCE  |  | 3         |                |                                |
| LIFE SCIENCE  |  | 3/4       |                |                                |
| <b>*PHYS. SCL.: PHYS 2010/15</b>                              | <b>College Physics I &amp; lab</b>         | 4/1       | F              | MATH 1060                      |
|   |  |           |                |                                |
|   |  |           |                |                                |