

## Curriculum Map: EARTH SYSTEMS SCIENCE – Geospatial Science Even-Year-Start

**NOTE:** If you are required to complete any developmental courses, you may not be able to complete the degree in four years. This curriculum map assumes that you have not transferred in any previously completed college level courses.

### FIRST YEAR COURSE SCHEDULE

| FIRST YEAR COURSE SCHEDULE |                                 |      |         |  |                    |                                     |      |         |
|----------------------------|---------------------------------|------|---------|--|--------------------|-------------------------------------|------|---------|
| ✓                          | Fall Semester                   | Code | Credits |  | ✓                  | Spring Semester                     | Code | Credits |
|                            | FYS 101 – First Year Seminar    | G    | 3       |  |                    | ESS 201 – Historical Geology        | R    | 3       |
|                            | SSE 120 – Satell. & Space Sys I | R    | 3       |  |                    | SSE 122 – Satellites & Space Sys II | R    | 3       |
|                            | ESS 108 – Phys. Geol. (NSC II)  | R,G  | 4       |  |                    | CHEM 111 – Princ. of Chemistry I    | R    | 4       |
|                            | *MATH 152 - College Algebra     | G    | 3       |  |                    | ENG 200 – Writing II                | G    | 3       |
|                            | ENG 100 – Writing I             | G    | 3       |  |                    | CIS 101 – Computers for Learning    | R    | 3       |
|                            |                                 |      |         |  |                    |                                     |      |         |
| Total Credit Hours         |                                 |      | 16      |  | Total Credit Hours |                                     |      | 16      |

### SECOND YEAR COURSE SCHEDULE

| SECOND YEAR COURSE SCHEDULE |                             |      |         |  |                    |                                 |      |         |
|-----------------------------|-----------------------------|------|---------|--|--------------------|---------------------------------|------|---------|
| ✓                           | Fall Semester               | Code | Credits |  | ✓                  | Spring Semester                 | Code | Credits |
|                             | ESS 330 – Geospatial Sci. I | R,U  | 3       |  |                    | ESS 331 – Geospatial Sci II     | R,U  | 3       |
|                             | ESS 276 – Field Methods     | R    | 3       |  |                    | PHYS 201/201L – Elem Physics I  | R    | 4       |
|                             | MATH 174 – Pre-Calculus     | R    | 3       |  |                    | BIOL 155 – Intro to Environ Sci | R    | 3       |
|                             | COMS 108 – Speech Comm.     | G    | 3       |  |                    | SBS I – Social/Behavioral Sci   | G    | 3       |
|                             | Unrestricted electives      | #    | 3       |  |                    | HUM I - Humanities              | G    | 3       |
|                             |                             |      |         |  |                    |                                 |      |         |
| Total Credit Hours          |                             |      | 15      |  | Total Credit Hours |                                 |      | 16      |

### THIRD YEAR COURSE SCHEDULE

| THIRD YEAR COURSE SCHEDULE |                              |      |         |  |                    |                                    |      |         |
|----------------------------|------------------------------|------|---------|--|--------------------|------------------------------------|------|---------|
| ✓                          | Fall Semester                | Code | Credits |  | ✓                  | Spring Semester                    | Code | Credits |
|                            | ESS 440 – Biogeochem Cyc     | R,U  | 3       |  |                    | ESS 450 – Geospat Sci Applications | R,U  | 3       |
|                            | ESS 401 – Remote Sensing     | R,U  | 3       |  |                    | ESS 325 – Structural Geology       | R,U  | 4       |
|                            | PHYS 202/2021 – Elem Phys II | R    | 4       |  |                    | SBS II – Social/Behavioral Sci     | G    | 3       |
|                            | HUM II - Humanities          | G    | 3       |  |                    | ESS Elective                       | U    | 3       |
|                            |                              |      |         |  |                    | Unrestricted electives             | #    | 3       |
|                            |                              |      |         |  |                    |                                    |      |         |
| Total Credit Hours         |                              |      | 13      |  | Total Credit Hours |                                    |      | 16      |

### FOURTH YEAR COURSE SCHEDULE

| FOURTH YEAR COURSE SCHEDULE |                              |      |         |  |                    |                            |      |         |
|-----------------------------|------------------------------|------|---------|--|--------------------|----------------------------|------|---------|
| ✓                           | Fall Semester                | Code | Credits |  | ✓                  | Spring Semester            | Code | Credits |
|                             | ESS 350 - Geomorphology      | R,U  | 3       |  |                    | **ESS 499C – Senior Thesis | U,G  | 3       |
|                             | SSE 460 – Spacecraft Sensors | R,U  | 3       |  |                    | ESS Elective               | U    | 3       |
|                             | SSE 476 – Special Projects   | R,U  | 3       |  |                    | Unrestricted elective      | #    | 7       |
|                             | NSC I – Natural Science      | G    | 3       |  |                    |                            |      |         |
|                             | ESS elective                 | #    | 3       |  |                    |                            |      |         |
|                             |                              |      |         |  |                    |                            |      |         |
| Total Credit Hours          |                              |      | 15      |  | Total Credit Hours |                            |      | 13      |

\*The MATH sequence you take depends on your ACT math score and/or satisfactory completion of prerequisites (see MATH course descriptions in the Undergraduate Catalog). Choose from 152, 174, and 175. Students who plan to attend graduate school are *strongly* encouraged to take math through at least MATH 275.

\*\*Geology Field Camp, may be used for the capstone requirement in the Geology Track and *strongly* recommended for those who plan to attend graduate school. Otherwise, take ESS 499C as shown for year four.

Codes

G = General Education Courses (37 hours)  
U = Upper Division Courses (37—need 42)  
# = Unrestricted Electives

(P) Pre-Requisite Course(s) must be successfully passed to be eligible to enroll in this course.  
(U) Upper Division Course 300-400 level (you must have 42 hours)  
(R) Required Course, (E) Elective, (S) Supplemental, or (P) Pre-requisite, (G) General Education Course