

## Geospatial Analysis and Mapping (GAM)

### Program Student Learning Goals

1. Describe fundamental concepts and practices associated with geographical thinking and geospatial technologies and analyses;
2. Understand how geospatial data are acquired (both remotely and in situ), processed, and analyzed;
3. Build, organize, and manage geospatial data for a variety of geospatial applications;
4. Demonstrate proficiency in cartographic visualization to effectively, concisely, and ethically present geospatial data;
5. Formulate and execute effective workflows to integrate multiple datasets and complete geospatial projects, both individually and collaboratively;
6. Demonstrate confidence in identifying, troubleshooting, and solving issues when working with complex geospatial technologies; and
7. Effectively communicate methodologies, results, and analyses through oral, written, and graphic media.

#### Curriculum Map of GAM Program Goals

| GOAL #       | New Courses |          | Existing Courses |          |          |          | TOTAL |
|--------------|-------------|----------|------------------|----------|----------|----------|-------|
|              | GEOL 303    | GEOL 470 | ESCI 305         | ENST 340 | GEOL 440 | ESCI 485 |       |
| (1)          | 2           | 2        | 2                | 1        | 3        | 2        | 12    |
| (2)          | 1           | 3        | 1                | 3        | 2        | 1        | 12    |
| (3)          | 1           | 3        | 2                | 2        | 2        | 1        | 11    |
| (4)          | 2           | 1        | 2                | 1        | 3        | 2        | 11    |
| (5)          | 1           | 1        | 2                | 2        | 3        | 2        | 11    |
| (6)          | 1           | 2        | 1                | 2        | 3        | 2        | 11    |
| (7)          | 1           | 2        | 2                | 2        | 3        | 3        | 13    |
| <b>TOTAL</b> | 9           | 14       | 12               | 13       | 19       | 13       |       |

1 = Basic coverage

2 = Intermediate coverage

3 = Advanced coverage

