

MAJORING IN GEOMATICS

Geomatics is the integrated approach to measurement, analysis, and management of spatial data. Graduates are employed by government and private organizations in surveying and mapping positions, as well as other facets of collecting, analyzing, and using spatial data. The major is accredited by the Accreditation Board for Engineering and Technology.

The following is a suggested course track. While it is preferred that students begin courses in Fall (August), students may be admitted for the Fall, Spring, or Summer terms.

| Term | Course Title | Course Number | Credits | Offered |
|-----------------------------|---|--|---|------------------------------------|
| JUNIOR Fall 15 credits | Geomatics | SUR 3103C | 3 credits | Fall |
| | Geographic Information Systems / Lab | SUR 3393/L | 3 credits | Fall |
| | Surveying Computations | SUR 3641 | 3 credits | Fall |
| | Visualization of Spatial Information | SUR 3323 | 3 credits | Fall |
| | Advisor approved elective | Selected with advisor | 3 credits | Fall |
| JUNIOR Spring 15 credits | Measurement Science | SUR 3520 | 3 credits | Spring |
| | Spatial Measurement Systems / Lab | SUR 3501/L | 3 credits | Spring |
| | Photogrammetry / Lab | SUR 3331/L | 3 credits | Spring |
| | Agricultural and Natural Resource Law or Legal Environment of Business | AEB 4123 or BUL 4310 | 3 credits or 4 credits | Spring Fall and Spring |
| | Principles of Agribusiness Management or Principles of Management | AEB 3133 or MAN 3025 | 3 credits or 4 credits | Fall and Spring Fall and Spring |
| Summer -1 credit | Co-op Work Experience | SUR 4949 | 1 credit | All terms |
| SENIOR Fall 15 credits | Dendrology / Forest Plants | FNR 3131C | 3 credits | Fall |
| | Route Geometrics and Design | SUR 4201 | 3 credits | Fall and Spring |
| | Geodesy and Geodetic Positioning | SUR 4530 | 3 credits | Fall |
| | Advanced Photogrammetry | SUR 4350C | 3 credits | Fall |
| | Cadastral Principles | SUR 4403 | 3 credits | Fall |
| SENIOR Spring 13 credits | Surveying and Mapping Practice | SUR 4430 | 3 credits | Spring |
| | Remote Sensing | SUR 4380 | 3 credits | Spring |
| | Subdivision Design | SUR 4463 | 3 credits | Spring |
| | Senior Project | SUR 4912 | 1 credit | Fall and Spring |
| | Forest Water Resources / Lab or Environmental Hydrology or Wetlands | FNR 4343/L or AOM 4643 or SOS 4244 | 3 credits or 3 credits or 3 credits | Spring Fall |
| Summer- 1 credit | Co-op Work Experience | SUR 4949 | 1 credit | All terms |
| Upper Division TOTAL | | | 60 Credits | |