### Minor in Geomatics

- **Geomatics Elective (3)**
- **Fundamentals of Surveying**
  - SUR 2104 (3)
- **Plane Surveying Lab**
  - SUR 2101L (1)
- **Introduction to Geomatics Engineering**
  - SUR2034 (3)

**Geomatics Minor:**
Must obtain a “C” or better in all minor coursework.
SUR2104, SUR2101L, and SUR2034 must be completed before the electives can be taken.

12 Elective Credits to be Chosen the Below:
- Photogrammetry (2) - SUR 3331 (2)
- Surveying Data Analysis (3) - SUR 3643 (3)
- Automated Surveying & Mapping (2) - SUR 3141 (3)
- Land Subdivision and Platting (2) - SUR 3463 (2)
- Land Subdivision and Platting Lab (2) - SUR 3463L (1)
- Eng. & Construction Surveying (4) - SUR 3205 (3)
- Eng. & Construction Surveying Lab (4) - SUR 3205L (1)
- Introduction to Geodesy (5) - SUR 3530 (3)
- Satellite Positioning (6) - SUR 4531 (2)
- Satellite Positioning Lab (6) - SUR 4531L (1)
- Legal Aspects of Surveying (2) - SUR 4403 (3)

**Notes:**
2. Requires SUR 2104C/SUR 2101L, Fundamentals of Surveying/Plane Surveying Lab, as prerequisites.
3. Requires SUR 2104C/SUR 2101L, Fundamentals of Surveying/Plane Surveying Lab, MAC 2312 or MAC 2282, as prerequisites; and STA 4032 as corequisite.
4. Requires SUR 3643, Surveying Data Analysis, as a prerequisite.
5. Requires MAC 2312 or MAC 2282, as a prerequisite.
6. Requires SUR 3530, Introduction to Geodesy, as a prerequisite.

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### Minor in Computer Science

#### Upper-Division Computer Science Course Options:
- **Computer Science Major Core Courses**
  - COP 4510 Computer Operating Systems
  - CDA 3311C Intro. to Microprocessor Systems
  - CDA 3201C Intro. to Logic Design
  - COP 3540 Intro. to Database Structures
  - COP 3813 Intro. to Internet Computing
  - CEN 4010 Principles of Software Engineering
  - COT 4400 Design & Analysis of Algorithms
  - COT 4420 Formal Lang. & Automata Theory

- **Information Technology**
  - CAP 4630 Intro. to Artificial Intelligence
  - CNT 4104 Intro. to Data Communications
  - CNT 4403 Intro. to Data & Network Security
  - COP 4814 Intro. to Web Services
  - COP 4703 Applied Database Systems
  - COP 4593 Component Prog. with .NET
  - CAP 4770 Data Mining & Mach Intelligence
  - COP 4854 Cutting Edge Web Tech

#### Applications
- CAP 4034 Computer Animation
- CAP 4018 Intro. to Game Prog.
- COP 4367 Graphical Application Dev.
- CEN 4910 SW Engineering Project
- COP 4331 Object-Oriented Design & Prog.

**System Progs.**
- COP 4020 - Prog. Languages
- CDA 4204 - CAD-Based Computer Design
- CDA 4210 - Intro. to VLSI
- CDA 4630 Intro. to Embedded System Design
- CDA 4102 Structured Computer Architecture
- CEN 4010 Software-Hardware Co-Design

**System Performance**
- MAP 4360 Intro. to Queuing Theory
- CEN 4400 Intro. to Computer System Perform

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**Legend:**

- Pre-Requiste
- Pre- or Co-
- Science & Math
- Core Courses
- Engineering Fund. Courses
- IPF Requirements

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This flowchart is reviewed periodically and is subject to change as new requirements become necessary to educate engineers. The information is intended to inform and is not a replacement for a degree audit conducted with an academic advisor.

Rev 9/16