# Geomatics Engineering, B.S. (129 Units)

Valid for Catalog Years: 2012-2016

*Official planning guide approved by the Lyles College of Engineering

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<th>General Education</th>
<th>Major</th>
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## General Education

### A2 (3 Units)
Written Communication
- *Must pass with a C or better; ENGL 10 recommended*

### A1 (3 Units)
Oral Communication
- *Must pass with a C or better*

### C1 (3-4 Units)
Arts

### B2 (3-4 Units)
Life Sciences

### D2 (3 Units)
American Government

### B3 (0-3 Units)
Lab

### D1 (3 Units)
American History

### D3 (3 Units)
Social Science

## Major

### GE Area B4
MATH 75 (4 Units)
Quantitative Reasoning
- [Pre-Req: Elementary geometry, intermediate algebra, and trigonometry OR precalculus. Passing score on department’s Calculus Readiness Test; ELM]

### GE Area B1
CHEM 3A (4 Units)
Physical Sciences
- [Pre-Req: GE 84 (may be taken concurrently)]
- *No credit for CHEM 3A after CHEM 1A*

### GE Area B3
MATH 23L (1 Unit)

### GE Area B2
GME 1 (1 Unit)

### GE Area C2
PHIL 1 or 10 (3 Units)
Humanities
- *See course catalog for prerequisite requirements*

### GE Area B1
GME 40 (3 Units)
- [Pre-Req: GME 15, 15L or instructor permission]

### GE Area B2
GME 50 (3 Units)
- [Pre-Req: GME 15]

### GE Area B2
EES 1 (4 Units)
- [Pre-Req: MATH 4R or second-year high school algebra recommended]

### GE Area B2
GME 102 (3 Units)
- [Pre-Req: GME 16, 34]

### GE Area C2
PHIL 120 (3 Units)
Arts & Humanities
- [Pre-Req: GE Foundation & Breadth Area D]

### GE Area B4
PHIL 120 (3 Units)
Arts & Humanities
- [Pre-Req: GE Foundation & Breadth Area C]

### GE Area B4
PHIL 1 or 10 (3 Units)
Humanities
- *See course catalog for prerequisite requirements*

### GE Area B2
GME 123 (3 Units)
- [Pre-Req: GME 15; 34 (may be taken concurrently)]

### GE Area B2
GME 125 (3 Units)
- [Pre-Req: GME 123; 135]

### GE Area B4
PHIL 1 or 10 (3 Units)
Humanities
- *See course catalog for prerequisite requirements*

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For assistance or to schedule an advising appointment, please contact the Department of Civil & Geomatics Engineering at 559-278-4828, Engineering East 178A.

**Lyle College of Engineering Advising Center:** 559-278-1076, Engineering East 383

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<td>Major</td>
<td>GME 15L (1 Unit) [Pre-Req: GME 15 (may be taken concurrently)]</td>
<td>GME 16L (1 Unit) [Pre-Req: GME 16 (may be taken concurrently)]</td>
<td>MATH 77 (4 Units) [Pre-Req: MATH 76]</td>
<td>GME 135 (3 Units) [Pre-Req: GME 34; MATH 77]</td>
<td>GME 159 (3 Units) [Pre-Req: GME 40, 151]</td>
<td>GME 181 (3 Units) [Pre-Req: GME 108, 123, 135, 151, 173]</td>
<td>GME 180 (2 Units) [Pre-Req: May be taken concurrently: GME 181; UDWS]</td>
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<td>GME 66 (3 Units) [Pre-Req: MATH 75 or MATH 75A &amp; B]</td>
<td>MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A &amp; B]</td>
<td>PHYS 4A (3 Units) [Pre-Req: GE 84; MATH 76 (may be taken concurrently)]</td>
<td>GME 173 (3 Units) [Pre-Req: GME 15, 66; or instructor permission]</td>
<td>Technical Course (3 Units) *See footnotes</td>
<td>Technical Design Course (3 Units) *See footnotes</td>
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<td>Electives</td>
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<td>PHYS 4AL (1 Unit) [Pre-Req: Corequisite: PHYS 4A]</td>
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<td>UDWS (0-4 Units) *Upper Division Writing Exam OR &quot;W&quot; Course (must pass with a C or better)</td>
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<td>Technical Design Course (3 Units) *See footnotes</td>
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**FOOTNOTES:**
**Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

**Grade Requirements:** Courses in engineering, mathematics, the physical sciences, and mandatory technical courses taken CR/NC are not counted toward fulfillment of degree requirements in Geomatics Engineering.

**Technical/Design Courses (9 units):** Select 9 units from GME 73, 114, 145, 152, 153, 161, 174, 175, 190, 191T; CSCI 115, 124, 150, 172; CM 180B (formerly 114), 122, 124; BA 154; GEOG 181; FIN 180, 181; MATH 101, 121; PHYS 110. At least 6 units must be selected from design courses: GME 145, 153, 161, 175.

**Upper Division Writing Skills requirement (UDWS):** All undergraduate students must demonstrate competency in writing skills by passing the Upper Division Writing Exam (UDWE) or by obtaining a C or better in an approved upper division writing course, identified by the letter "W."