# Geomatics Engineering, B.S. (124 Units)

Valid for Catalog Years: 2018/2019 to Present

*Official planning guide approved by the Lyles College of Engineering*

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<table>
<thead>
<tr>
<th>Freshman</th>
<th>Sophomore</th>
<th>Junior</th>
<th>Senior</th>
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<tbody>
<tr>
<td><strong>Units</strong></td>
<td>17</td>
<td>13</td>
<td>14</td>
</tr>
<tr>
<td><strong>Milestones</strong></td>
<td>MEET WITH ADVISOR, MATH 75, GME 15, 15L</td>
<td>MATH 76, GME 16, 16L</td>
<td>MEET WITH ADVISOR, MATH 77, GME 40, GME 61, GME 66</td>
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<tr>
<td><strong>General Education</strong></td>
<td>A2 (3 Units) Written Communication *Must pass with a C or better; ENGL 10 recommended</td>
<td>A1 (3 Units) Oral Communication *Must pass with a C or better</td>
<td>D1 (3 Units) American History</td>
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<td>D2 (3 Units) American Government</td>
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<td>D3 (3 Units) Social Science</td>
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<tr>
<td><strong>Major</strong></td>
<td>GE Area B4 MATH 75 (4 Units) Quantitative Reasoning [Pre-Req: Elementary geometry, intermediate algebra, &amp; trigonometry OR precalculus. Passing score on department’s Calculus Readiness Test; ELM]</td>
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Lyle College of Engineering Advising Center: 559-278-1076, Engineering East 383

### Major

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#### Freshman

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

- **Spring**
  - GME 40 (3 Units)  
    [Pre-Req: GME 15, 15L; or instructor permission]
  - GME 50 (3 Units)  
    [Pre-Req: GME 15]

#### Sophomore

- **Fall**
  - GME 15 (2 Units)  
    [Pre-Req: MATH 5]
  - GME 16 (2 Units)  
    [Pre-Req: GME 15]

- **Spring**
  - GME 61 (3 Units)  
    [Pre-Req: GME 15 (may be taken concurrently)]
  - PHYS 4B (3 Units)  
    [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]
  - GME 123 (3 Units)  
    [Pre-Req: GME 15; 173 (may be taken concurrently)]

#### Junior

- **Fall**
  - GME 108 (3 Units)  
    [Pre-Req: MATH 77; PHYS 4A, 4AL; GME 34 (may be taken concurrently)]
  - GME 126 (3 Units)  
    [Pre-Req: GME 123; 173 (may be taken concurrently)]
  - GME 143 (3 Units)  
    [Pre-Req: GME 102; 108, 135 (may be taken concurrently)]

- **Spring**
  - CE 150 (3 Units)  
    [Pre-Req: GME 15; upper division standing]
  - GME 125 (3 Units)  
    [Pre-Req: GME 123; 135]

#### Senior

- **Fall**
  - CE 161 (2 Units)  
    [Pre-Req: CE 130; instructor permission]
  - GME 180 (2 Units)  
    [Pre-Req: May be taken concurrently: GME 181; UDWS]

- **Spring**
  - Technical Course (3 Units)  
    *See footnotes
  - Technical Design Course (3 Units)  
    *See footnotes

### Technical Design Course (3 Units)  
*See footnotes

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**Revised 6/2018**
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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>16-20</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 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."

**Substitutions:** If substitutions/exceptions/waivers are made for any major courses that also meet GE and/or the Multicultural/International graduation requirement, the student is responsible for completing additional courses to satisfy the respective areas (GE and/or MI). This also includes the upperdivision writing requirement.