

**Civil Engineering, B.S. (124 Units)**  
Valid for Catalog Years: 2015/2016 to Present  
\*Official planning guide approved by the Lyles College of Engineering

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

Units	Freshman		Sophomore		Junior		Senior	
	Fall 16-17	Spring 17-18	Fall 17-20	Spring 16	Fall 17	Spring 15	Fall 17-21	Spring 15-16
General Education	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better	<b>C1 (3-4 Units)</b> Arts	<b>B3 (0-3 Units)</b> Lab			<b>D3 (3 Units)</b> Social Science		<b>IC (3-4 Units)</b> Arts & Humanities
	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better; ENGL 10 recommended	<b>D1 (3 Units)</b> American History	<b>D2 (3 Units)</b> American Government					
	<b>B2 (3-4 Units)</b> Life Sciences *BIOL 10 recommended							
Major	<b>GE Area B4 MATH 75 (4 Units)</b> Quantitative Reasoning [Pre-Req: Elementary geometry, intermediate algebra, & trigonometry OR precalculus. Passing score on department's Calculus Readiness Test; ELM]	<b>GME 66, ME 26, or CM 4 (3 Units)</b> *See course catalog for prerequisite requirements	<b>GE Area B1 CHEM 3A (4 Units)</b> Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)] *No credit for CHEM 3A after CHEM 1A	<b>GE Area C2 PHIL 1 or 10 (3 Units)</b> Humanities *See course catalog for prerequisite requirements	<b>GE Area IB CE 121 (3 Units)</b> Physical Universe & Its Life Forms [Pre-Req: CE 20]	<b>CE 123 (3 Units)</b> [Pre-Req: CE 121; Co-Req: CE 123L]	<b>CE 132 (3 Units)</b> [Pre-Req: CE 130]	<b>GE Area MI PLSI 120 (3 Units)</b> Multicultural/International [Pre-Req: GE Foundation & Breadth Area D]
	<b>CE 85 (3 Units)</b>	<b>MATH 76 (4 Units)</b> [Pre-Req: MATH 75 or MATH 75A & B]	<b>CE 20 (3 Units)</b> [Pre-Req: MATH 76; PHYS 4A]	<b>CE 110 (3 Units)</b> [Pre-Req: MATH 76 (may be taken concurrently)]	<b>CE 121L (1 Unit)</b> [Pre-Req: CE 121 (may be taken concurrently)]	<b>CE 123L (1 Unit)</b> [Pre-Req: CE 121L (may be taken concurrently); Corequisite: CE 123]	<b>CE 133 (3 Units)</b> [Pre-Req: CE 130]	<b>CE 161 (2 Units)</b> [Pre-Req: CE 130; instructor permission]

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	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	16-17	17-18	17-20	16	17	15	17-21	15-16
<b>Major</b>		<b>PHYS 4A (3 Units)</b> [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	<b>MATH 77 (4 Units)</b> [Pre-Req: MATH 76]	<b>EES 1 (4 Units)</b> [Pre-Req: MATH 4R or second-year high school algebra recommended]	<b>CE 128 (3 Units)</b> [Pre-Req: CE 20 (may be taken concurrently)]	<b>CE 124 (1 Unit)</b> [Pre-Req: CE 121L]	<b>CE 180A (2 Units)</b> *See course catalog for prerequisite requirements	<b>CE 180B (2 Units)</b> [Pre-Req: CE 180A, 123/L, 124, 129, 132, 142/L, 150, 161; Technical Area Courses (9 units); approved project proposal; instructor permission; Corequisites: CE 185; Technical Area Courses (12 units including 9 units Design Courses)]
		<b>PHYS 4AL (1 Unit)</b> [Pre-Req: Corequisite: PHYS 4A]	<b>PHYS 4B (3 Units)</b> [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	<b>GME 15 (2 Units)</b> [Pre-Req: MATH 5]	<b>CE 129 (1 Unit)</b> [Pre-Req: CE 128 (may be taken concurrently)]	<b>CE 130 (3 Units)</b> [Pre-Req: CE 121]	<b>CE Technical Area (3 Units)</b> *See footnotes	
				<b>GME 15L (1 Unit)</b> [Pre-Req: GME 15 (may be taken concurrently)]	<b>CE 142 (3 Units)</b> [Pre-Req: May be taken concurrently: CHEM 1A or 3A; CE 128]	<b>CE 142L (1 Unit)</b> [Pre-Req: CE 142 (may be taken concurrently)]	<b>CE Technical Area (3 Units)</b> *See footnotes	<b>CE 185 (2 Units)</b> [Pre-Req: Senior standing or instructor permission]
				<b>MATH 81 (3 Units)</b> [Pre-Req: MATH 77]	<b>CE 150 (3 Units)</b> [Pre-Req: GME 15; upper division standing]	<b>CE Technical Area (3 Units)</b> *See footnotes	<b>ECE 91 or CE Technical Area (3 Units)</b> *See course catalog for prerequisite requirements; see footnotes	<b>CE Technical Area (3 Units)</b> *See footnotes
					<b>ME 112 (3 Units)</b> [Pre-Req: CE 20; MATH 81 or ENGR 101]			
<b>Electives</b>							<b>UDWS (0-4 Units)</b> *Upper Division Writing Exam OR "W" Course (must pass with a C or better)	

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
<b>Units</b>	<b>16-17</b>	<b>17-18</b>	<b>17-20</b>	<b>16</b>	<b>17</b>	<b>15</b>	<b>17-21</b>	<b>15-16</b>

**FOOTNOTES:**

**Prerequisites/Corequisites:** Other restrictions may apply. Please see your course catalog for detailed prerequisite/corequisite requirements.

**Grade Requirements:** Courses in mathematics, physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in Civil Engineering. 12 units of Technical Area Courses should be completed with an average grade of at least a C.

**CE Technical Area (12 units):** Select 12 units from (Environmental and Water Resources: CE 140, 141, 144, 146); (General Professional: CE 190, 191T); (Geotechnical: CE 125, 134); (Structures: CE 131, 136, 137); (Geomatics: GME 151, 173); and/or (Transportation: CE 151, 152, 153). At least 9 units must be selected from (Design Courses: CE 125, 134, 136, 141, 144, 146, 151).

**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."