



Civil Engineering, B.S. (124 Units)

Valid for Catalog Years: 2018/2019 to 2019/2020

*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 14-15	Fall 17	Spring 16	Fall 17	Spring 15	Fall 17-21	Spring 12
Milestones		Mandatory Freshman Advising; MATH 75 with "C" or better	Mandatory Major Advising; MATH 76 & PHYS 4A both with "C" of better;	Mandatory Major Advising; MATH 77, PHYS 4B, & CE 20, all three with "C" of better	Mandatory Major Advising; MATH 81 with "C" of better, CHEM 3A & GME 15	Mandatory Major Advising; CE 121, 121L, 128, 142, & 150	CE 123, 123L, 130, CE Tech with "C" or better, and UDWS with "C" of better; All TAC must average a "C" of better; Major and Cumulative GPA must be 2.00 or above	CE 132, 180A, & CE Tech; All TAC must average a "C" or better; Major and Cumulative GPA must be 2.00 or above
General Education	A1 (3 Units) Oral Communication *Must pass with a C or better	D1 (3 Units) American History	D2 (3 Units) American Government			D3 (3 Units) Social Science		
	A2 (3 Units) Written Communication *Must pass with a C or better; ENGL 10 recommended							
	B2 (3-4 Units) Life Sciences *BIOL 10 recommended							

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	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	16-17	14-15	17	16	17	15	17-21	12
Major	<p>GE Area B4 MATH 75 (4 Units) Quantitative Reasoning [Pre-Req: Elementary geometry, intermediate algebra, & trigonometry OR precalculus. Passing score on department's Calculus Readiness Test; ELM]</p>	<p>GME 66, ME 26, or CM 4 (3 Units) *See course catalog for prerequisite requirements</p>	<p>GE Area B1 CHEM 3A (4 Units) Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)] *No credit for CHEM 3A after CHEM 1A</p>	<p>GE Area C2 PHIL 1 or 10 (3 Units) Humanities *See course catalog for prerequisite requirements</p>	<p>GE Area IB CE 121 (3 Units) Physical Universe & Its Life Forms [Pre-Req: CE 20]</p>	<p>CE 123 (3 Units) [Pre-Req: CE 121; Co-Req: CE 123L]</p>	<p>CE 132 (3 Units) [Pre-Req: CE 130]</p>	<p>MI PLSI 120 (3 Units) Multicultural/International [Pre-Req: GE Foundation & Breadth Area D]</p>
	<p>CE 85 (3 Units)</p>	<p>MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]</p>	<p>CE 20 (3 Units) [Pre-Req: MATH 76; PHYS 4A]</p>	<p>CE 110 (3 Units) [Pre-Req: MATH 76 (may be taken concurrently)]</p>	<p>CE 121L (1 Unit) [Pre-Req: CE 121 (may be taken concurrently)]</p>	<p>CE 123L (1 Unit) [Pre-Req: CE 121L (may be taken concurrently); Corequisite: CE 123]</p>	<p>CE 133 (3 Units) [Pre-Req: CE 130]</p>	<p>CE 161 (2 Units) [Pre-Req: CE 130; instructor permission]</p>

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	Fall 16-17	Spring 14-15	Fall 17	Spring 16	Fall 17	Spring 15	Fall 17-21	Spring 12
Major		PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	MATH 77 (4 Units) [Pre-Req: MATH 76]	EES 1 (4 Units) [Pre-Req: MATH 4R or second-year high school algebra recommended]	CE 128 (3 Units) [Pre-Req: CE 20 (may be taken concurrently)]	CE 124 (1 Unit) [Pre-Req: CE 121L]	CE 180A (2 Units) *See course catalog for prerequisite requirements	CE 180B (2 Units) [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)]
		PHYS 4AL (1 Unit) [Pre-Req: Corequisite: PHYS 4A]	PHYS 4B (3 Units) [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	GME 15 (2 Units) [Pre-Req: MATH 5]	CE 129 (1 Unit) [Pre-Req: CE 128 (may be taken concurrently)]	CE 130 (3 Units) [Pre-Req: CE 121]	CE Technical Area (3 Units) *See footnotes	
				GME 15L (1 Unit) [Pre-Req: GME 15 (may be taken concurrently)]	CE 142 (3 Units) [Pre-Req: May be taken concurrently: CHEM 1A or 3A; CE 128]	CE 142L (1 Unit) [Pre-Req: CE 142 (may be taken concurrently)]	CE Technical Area (3 Units) *See footnotes	CE 185 (2 Units) [Pre-Req: Senior standing or instructor permission]
				MATH 81 (3 Units) [Pre-Req: MATH 77]	CE 150 (3 Units) [Pre-Req: GME 15; upper division standing]	CE Technical Area (3 Units) *See footnotes	ECE 91 or CE Technical Area (3 Units) *See course catalog for prerequisite requirements; see footnotes	CE Technical Area (3 Units) *See footnotes
					ME 112 (3 Units) [Pre-Req: CE 20; MATH 81 or ENGR 101]			



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	Fall 16-17	Spring 14-15	Fall 17	Spring 16	Fall 17	Spring 15	Fall 17-21	Spring 12
Additional Graduation Requirements							UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)	

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."

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.

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	CE 85 (3 Units)	MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	CE 20 (3 Units) [Pre-Req: MATH 76; PHYS 4A]	CE 110 (3 Units) [Pre-Req: MATH 76 (may be taken concurrently)]	CE 121L (1 Unit) [Pre-Req: CE 121 (may be taken concurrently)]	CE 123L (1 Unit) [Pre-Req: CE 121L (may be taken concurrently); Corequisite: CE 123]	CE 133 (3 Units) [Pre-Req: CE 130]	CE 161 (2 Units) [Pre-Req: CE 130; instructor permission]	

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