

Geomatics Engineering, B.S. (124 Units)

Valid for Catalog Years: 2017/2018

*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	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Milestones	17	13	14	15	16-20	15-16	15	16
	MEET WITH ADVISOR, MATH 75, GME 15, 15L	MATH 76, GME 16, 16L	MEET WITH ADVISOR, MATH 77, GME 40, GME 61, GME 66	GME 34, GME 50, PHYS 4A, 4AL	MEET WITH ADVISOR, GME 123, GME 135, GME 151, GME 173, AVG. GEOMATICS UPPER DIVISION GRADE C OR ABOVE	GME 102, GME 108, GME 126, GME 159, AVG. GEOMATICS UPPER DIVISION GRADE C OR ABOVE	MEET WITH ADVISOR, TECH Des, GME 143, GME 181, UDWE WITH MIN GRADE C, AVG. GEOMATICS UPPER DIVISION GRADE C OR ABOVE	GME 125, GME 180, AVG. GEOMATICS UPPER DIVISION GRADE C OR ABOVE
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				B2 (3-4 Units) Life Sciences		
	D2 (3 Units) American Government			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, & trigonometry OR precalculus. Passing score on department's Calculus Readiness Test; ELM]			GME 34 (3 Units) [Pre-Req: GME 15; MATH 76]	GE Area IB GME 151 (3 Units) Physical Universe & Its Life Forms [Pre-Req: GME 50 or instructor permission]	GME 102 (3 Units) [Pre-Req: GME 16, 34]	GE Area MI PLSI 120 (3 Units) Multicultural/International [Pre-Req: GE Foundation & Breadth Area D]	GE Area IC PHIL 120 (3 Units) Arts & Humanities [Pre-Req: GE Foundation & Breadth Area C]

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	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
	17	13	14	15	16-20	15-16	15	16
Major	GME 1 (1 Unit)	GE Area C2 PHIL 1 or 10 (3 Units) Humanities *See course catalog for prerequisite requirements	GME 40 (3 Units) [Pre-Req: GME 15, 15L; or instructor permission]	GME 50 (3 Units) [Pre-Req: GME 15]	GE Area B1/B3 EES 1 (4 Units) [Pre-Req: MATH 4R or second-year high school algebra recommended]	GME 108 (3 Units) [Pre-Req: MATH 77; PHYS 4A, 4AL; GME 34 (may be taken concurrently)]	CE 150 (3 Units) [Pre-Req: GME 15; upper division standing]	CE 161 (2 Units) [Pre-Req: CE 130; instructor permission]
	GME 15 (2 Units) [Pre-Req: MATH 5]	GME 16 (2 Units) [Pre-Req: GME 15]	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; 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)]	GME 125 (3 Units) [Pre-Req: GME 123; 135]
	GME 15L (1 Unit) [Pre-Req: GME 15 (may be taken concurrently)]	GME 16L (1 Unit) [Pre-Req: GME 16 (may be taken concurrently)]	MATH 77 (4 Units) [Pre-Req: MATH 76]		GME 135 (3 Units) [Pre-Req: GME 34; MATH 77]	GME 159 (3 Units) [Pre-Req: GME 40, 151]	GME 181 (3 Units) [Pre-Req: GME 108, 123, 135, 151, 173]	GME 180 (2 Units) [Pre-Req: May be taken concurrently: GME 181; UDWS]
	GME 66 (3 Units)	MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]		GME 173 (3 Units) [Pre-Req: GME 15, 66; or instructor permission]		Technical Course (3 Units) *See footnotes	Technical Design Course (3 Units) *See footnotes
			PHYS 4AL (1 Unit) [Pre-Req: Corequisite: PHYS 4A]					Technical Design Course (3 Units) *See footnotes
Electives					UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			

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	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	17	13	14	15	16-20	15-16	15	16

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."

Geomatics Engineering, B.S. (129 Units)

Valid for Catalog Years: 2012-2016

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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, & trigonometry OR precalculus. Passing score on department's Calculus Readiness Test; ELM]	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	GME 23L (1 Unit)	GME 34 (3 Units) [Pre-Req: GME 15; MATH 76]	GE Area IB GME 151 (3 Units) Physical Universe & Its Life Forms [Pre-Req: GME 50 or instructor permission]	GME 102 (3 Units) [Pre-Req: GME 16, 34]	GE Area MI PLSI 120 (3 Units) Multicultural/International [Pre-Req: GE Foundation & Breadth Area D]	GE Area IC PHIL 120 (3 Units) Arts & Humanities [Pre-Req: GE Foundation & Breadth Area C]
	GME 1 (1 Unit)	GE Area C2 PHIL 1 or 10 (3 Units) Humanities *See course catalog for prerequisite requirements	GME 40 (3 Units) [Pre-Req: GME 15, 15L; or instructor permission]	GME 50 (3 Units) [Pre-Req: GME 15]	EES 1 (4 Units) [Pre-Req: MATH 4R or second-year high school algebra recommended]	GME 108 (3 Units) [Pre-Req: MATH 77; PHYS 4A, 4AL; GME 34 (may be taken concurrently)]	CE 150 (3 Units) [Pre-Req: GME 15; upper division standing]	CE 161 (2 Units) [Pre-Req: CE 130; instructor permission]
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	GME 66 (3 Units)	MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]		GME 173 (3 Units) [Pre-Req: GME 15, 66; or instructor permission]		Technical Course (3 Units) *See footnotes	Technical Design Course (3 Units) *See footnotes
			PHYS 4AL (1 Unit) [Pre-Req: Corequisite: PHYS 4A]					Technical Design Course (3 Units) *See footnotes
Electives					UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			

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