

Mechanical Engineering, B.S. (123 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 Mechanical Engineering** at 559-278-2368, Engineering East 154
Lyle College of Engineering Advising Center: 559-278-1076, Engineering East 383

	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	17-19	16	17	18	16-21	13	12	13
Milestones								
General Education	A2 (3 Units) Written Communication *Must pass with a C or better; ENLG 10 recommended	B3 CHEM 1AL (2 Units) Lab Pre-Req: CHEM 1A (may be taken concurrently)	A1 (3 Units) Oral Communication *Must pass with a C or better		D3 (3 Units) Social Science			
	B2 (3-4 Units) Life Sciences	D1 (3 Units) American History						
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 1A (3 Units) Physical Sciences Pre-Req: GE B4 (may be taken concurrently)	GE Area C2 PHIL 20 (3 Units) Humanities Pre-Req: GE A2	GE Area D2 PLSI 2 (3 Units) American Government	CE 121 (3 Units) Pre-Req: CE 20	GE Area IB ME 134 (3 Units) Physical Universe & Its Life Forms Pre-Req: ME 26, 112; CE 121; MATH 81 or ENGR 101	ME 135 (3 Units) Pre-Req: May be taken concurrently: ME 134, 145, 154, 156; Senior standing	MI PLSI 120 (3 Units) Multicultural/International Pre-Req: GE Foundation & Breadth Area D

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Units	Freshman		Sophomore		Junior		Senior	
	Fall 17-19	Spring 16	Fall 17	Spring 18	Fall 16-21	Spring 13	Fall 12	Spring 13
Major	ECE 70 (3 Units) OR CSCI 40 (4 Units) Pre-Req: Must pass ELM or complete intermediate algebra & trigonometry	ME 2 (1 Unit) Pre-Req: MATH 75 (may be taken concurrently)	ME 31 (3 Units) Pre-Req: CHEM 1A; MATH 75 (may be taken concurrently)	CE 20 (3 Units) Pre-Req: MATH 76; PHYS 4A	ME 112 (3 Units) Pre-Req: CE 20; MATH 81 or ENGR 101	ME 116 (3 Units) Pre-Req: CE 20; MATH 81 or ENGR 101; ME 112 (may be taken concurrently)	ME 145 (3 Units) Pre-Req: ME 116, 136; ME 140 (may be taken concurrently)	ME 155 (3 Units) Pre-Req: ME 135; UDWS
	ME 1 (1 Unit)	PHYS 4A (3 Units) Pre-Req: GE B4; MATH 76 (may be taken concurrently)	ME 32 (1 Unit) Pre-Req: ME 31; MATH 75 (may be taken concurrently)	ECE 91 (3 Units) Pre-Req: PHYS 4B; MATH 76 *No credit if taken after ECE 90	ME 115 (1 Unit) Pre-Req: ECE 70 or CSCI 40, 91, 91L	ME 118 (1 Unit) Pre-Req: ENGR 105W or UDWE; May be taken concurrently: ME 115, 116	ME 154 (3 Units) Pre-Req: ME 31; CE 121	ME 159 (1 Unit) Pre-Req: ME 118, 125, 145, 156 (may be taken concurrently); Senior standing
	ME 26 (3 Units) Pre-Req: MATH 75 (may be taken concurrently)	PHYS 4AL (1 Unit) Co-Req: PHYS 4A	MATH 77 (4 Units) Pre-Req: MATH 76	ECE 91L (1 Unit) Pre-Req: ECE 91 (may be taken concurrently)	ME 125 (3 Units) Pre-Req: MATH 77 (may be taken concurrently)	ME 140 (3 Units) Pre-Req: CE 121; ECE 70 or CSCI 40; May be taken concurrently: ME 112, 116	Technical Area (3 Units) *See footnotes	ME 166 (3 Units) Pre-Req: ME 135; UDWS
		MATH 76 (4 Units) Pre-Req: MATH 75 or MATH 75A & B	PHYS 4B (3 Units) Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)	MATH 81 (3 Units) Pre-Req: MATH 77 *With faculty advisor approval, ENGR 101 may be taken instead of MATH 81	ME 136 (3 Units) Pre-Req: CHEM 1A; PHYS 4A; MATH 77; upper division standing	ME 156 (3 Units) Pre-Req: ME 136		Technical Area (3 Units) *See footnotes

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	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	17-19	16	17	18	16-21	13	12	13
Major				ME 95 (2 Units) Pre-Req: ME 26, 31; May be taken concurrently: ME 2, 32; MATH 75				
				PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]				
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, the physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in Mechanical Engineering.

Technical Area (6 units): Select a minimum of 3 units from Group A (ME 122, 137, 142, 144, 146, 162, or 164). A maximum of 3 units in Group B (ME 180, 190, 191T; ECE 121, 121L, 155) may be substituted for a course in Group A with faculty advisor's approval.

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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	Fall 17-19	Spring 16	Fall 17	Spring 18	Fall 16-21	Spring 13	Fall 12	Spring 13
General Education	A2 (3 Units) Written Communication *Must pass with a C or better; ENLG 10 recommended	B3 CHEM 1AL (2 Units) Lab Pre-Req: CHEM 1A (may be taken concurrently)	A1 (3 Units) Oral Communication *Must pass with a C or better		D3 (3 Units) Social Science			
	B2 (3-4 Units) Life Sciences	D1 (3 Units) American History						
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 1A (3 Units) Physical Sciences Pre-Req: GE B4 (may be taken concurrently)	GE Area C2 PHIL 20 (3 Units) Humanities Pre-Req: GE A2	GE Area D2 PLSI 2 (3 Units) American Government	CE 121 (3 Units) Pre-Req: CE 20	GE Area IB ME 134 (3 Units) Physical Universe & Its Life Forms Pre-Req: ME 26, 112; CE 121; MATH 81 or ENGR 101	ME 135 (3 Units) Pre-Req: May be taken concurrently: ME 134, 145, 154, 156; Senior standing	GE Area MI PLSI 120 (3 Units) Multicultural/International Pre-Req: GE Foundation & Breadth Area D
	ECE 70 (3 Units) OR CSCI 40 (4 Units) Pre-Req: Must pass ELM or complete intermediate algebra & trigonometry	ME 2 (1 Unit) Pre-Req: MATH 75 (may be taken concurrently)	ME 31 (3 Units) Pre-Req: CHEM 1A; MATH 75 (may be taken concurrently)	CE 20 (3 Units) Pre-Req: MATH 76; PHYS 4A	ME 112 (3 Units) Pre-Req: CE 20; MATH 81 or ENGR 101	ME 116 (3 Units) Pre-Req: CE 20; MATH 81 or ENGR 101; ME 112 (may be taken concurrently)	ME 145 (3 Units) Pre-Req: ME 116, 136; ME 140 (may be taken concurrently)	ME 155 (3 Units) Pre-Req: ME 135; UDWS
	ME 1 (1 Unit)	PHYS 4A (3 Units) Pre-Req: GE B4; MATH 76 (may be taken concurrently)	ME 32 (1 Unit) Pre-Req: ME 31; MATH 75 (may be taken concurrently)	ECE 91 (3 Units) Pre-Req: PHYS 4B; MATH 76 *No credit if taken after ECE 90	ME 115 (1 Unit) Pre-Req: ECE 70 or CSCI 40, 91, 91L	ME 118 (1 Unit) Pre-Req: ENGR 105W or UDWE; May be taken concurrently: ME 115, 116	ME 154 (3 Units) Pre-Req: ME 31; CE 121	ME 159 (1 Unit) Pre-Req: ME 118, 125, 145, 156 (may be taken concurrently); Senior standing

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	Freshman		Sophomore		Junior		Senior	
	Fall	Spring	Fall	Spring	Fall	Spring	Fall	Spring
Units	17-19	16	17	18	16-21	13	12	13
Major	ME 26 (3 Units) Pre-Req: MATH 75 (may be taken concurrently)	PHYS 4AL (1 Unit) Co-Req: PHYS 4A	MATH 77 (4 Units) Pre-Req: MATH 76	ECE 91L (1 Unit) Pre-Req: ECE 91 (may be taken concurrently)	ME 125 (3 Units) Pre-Req: MATH 77 (may be taken concurrently)	ME 140 (3 Units) Pre-Req: CE 121; ECE 70 or CSCI 40; May be taken concurrently: ME 112, 116	Technical Area (3 Units) *See footnotes	ME 166 (3 Units) Pre-Req: ME 135; UDWS
		MATH 76 (4 Units) Pre-Req: MATH 75 or MATH 75A & B	PHYS 4B (3 Units) Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)	MATH 81 (3 Units) Pre-Req: MATH 77 *With faculty advisor approval, ENGR 101 may be taken instead of MATH 81	ME 136 (3 Units) Pre-Req: CHEM 1A; PHYS 4A; MATH 77; upper division standing	ME 156 (3 Units) Pre-Req: ME 136	Technical Area (3 Units) *See footnotes	
				ME 95 (2 Units) Pre-Req: ME 26, 31; May be taken concurrently: ME 2, 32; MATH 75				
				PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]				
Electives					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, the physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in Mechanical Engineering.

Technical Area (6 units): Select a minimum of 3 units from Group A (ME 122, 137, 142, 144, 146, 162, or 164). A maximum of 3 units in Group B (ME 180, 190, 191T; ECE 121, 121L, 155) may be substituted for a course in Group A with faculty advisor's approval.

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."

Mechanical Engineering, B.S. (129 Units)

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Units	Freshman		Sophomore		Junior		Senior	
	Fall 17-18	Spring 16	Fall 17	Spring 18	Fall 16-21	Spring 16	Fall 15	Spring 13
General Education	A2 (3 Units) Written Communication *Must pass with a C or better; ENLG 10 recommended	B3 CHEM 1AL (2 Units) Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	A1 (3 Units) Oral Communication *Must pass with a C or better		C1 (3-4 Units) Arts		D3 (3 Units) Social Science	
	B2 (3-4 Units) Life Sciences	D1 (3 Units) American History						
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 1A (3 Units) Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)]	GE Area C2 PHIL 20 (3 Units) Humanities [Pre-Req: GE A2]	GE Area D2 PLSI 2 (3 Units) American Government	CE 121 (3 Units) [Pre-Req: CE 20]	GE Area IB ME 134 (3 Units) Physical Universe & Its Life Forms [Pre-Req: ME 26, 112; CE 121; MATH 81 or ENGR 101]	ME 135 (3 Units) [Pre-Req: May be taken concurrently: ME 134, 145, 154, 156; Senior standing]	GE Area MI PLSI 120 (3 Units) Multicultural/International [Pre-Req: GE Foundation & Breadth Area D]
	ECE 71 (3 Units) [Pre-Req: MATH 75 (may be taken concurrently)]	ME 2 (1 Unit) [Pre-Req: MATH 75 (may be taken concurrently)]	ME 31 (3 Units) [Pre-Req: CHEM 1A; MATH 75 (may be taken concurrently)]	CE 20 (3 Units) [Pre-Req: MATH 76; PHYS 4A]	ME 112 (3 Units) [Pre-Req: CE 20; MATH 81 or ENGR 101]	GE Area IC PHIL 120 (3 Units) Arts & Humanities [Pre-Req: GE Foundation & Breadth Area C]	ME 145 (3 Units) [Pre-Req: ME 116, 136; ME 140 (may be taken concurrently)]	ME 155 (3 Units) [Pre-Req: ME 135; UDWS]
	ME 1 (1 Unit)	PHYS 4A (3 Units) [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	ME 32 (1 Unit) [Pre-Req: ME 31; MATH 75 (may be taken concurrently)]	ECE 91 (3 Units) [Pre-Req: PHYS 4B; MATH 76] *No credit if taken after ECE 90	ME 115 (1 Unit) [Pre-Req: ECE 71, 91, 91L]	ME 116 (3 Units) [Pre-Req: CE 20; MATH 81 or ENGR 101; ME 112 (may be taken concurrently)]	ME 154 (3 Units) [Pre-Req: ME 31; CE 121]	ME 159 (1 Unit) [Pre-Req: ME 118, 125, 145, 156 (may be taken concurrently); Senior standing]

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		MATH 76 (4 Units) [Pre-Req: MATH 75 or MATH 75A & B]	PHYS 4B (3 Units) [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	MATH 81 (3 Units) [Pre-Req: MATH 77] *With faculty advisor approval, ENGR 101 may be taken instead of MATH 81	ME 136 (3 Units) [Pre-Req: CHEM 1A; PHYS 4A; MATH 77; upper division standing]	ME 140 (3 Units) [Pre-Req: CE 121; ECE 71; May be taken concurrently: ME 112, 116]		Technical Area (3 Units) *See footnotes
				ME 95 (2 Units) [Pre-Req: ME 26, 31; May be taken concurrently: ME 2, 32; MATH 75]		ME 156 (3 Units) [Pre-Req: ME 136]		
				PHYS 4C (3 Units) [Pre-Req: PHYS 4B; MATH 77]				
Electives					UDWS (0-4 Units) *Upper Division Writing Exam OR "W" Course (must pass with a C or better)			

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