

**Mechanical Engineering, B.S. (129 Units)**

Valid for Catalog Years: 2008/2009 to 2015/2016

\*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

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	<b>A2 (3 Units)</b> Written Communication *Must pass with a C or better; ENLG 10 recommended	<b>B3 CHEM 1AL (2 Units)</b> Lab [Pre-Req: CHEM 1A (may be taken concurrently)]	<b>A1 (3 Units)</b> Oral Communication *Must pass with a C or better		<b>C1 (3-4 Units)</b> Arts		<b>D3 (3 Units)</b> Social Science	
	<b>B2 (3-4 Units)</b> Life Sciences	<b>D1 (3 Units)</b> American History						
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>GE Area B1 CHEM 1A (3 Units)</b> Physical Sciences [Pre-Req: GE B4 (may be taken concurrently)]	<b>GE Area C2 PHIL 20 (3 Units)</b> Humanities [Pre-Req: GE A2]	<b>GE Area D2 PLSI 2 (3 Units)</b> American Government	<b>CE 121 (3 Units)</b> [Pre-Req: CE 20]	<b>GE Area IB ME 134 (3 Units)</b> Physical Universe & Its Life Forms [Pre-Req: ME 26, 112; CE 121; MATH 81 or ENGR 101]	<b>ME 135 (3 Units)</b> [Pre-Req: May be taken concurrently: ME 134, 145, 154, 156; Senior standing]	<b>GE Area MI PLSI 120 (3 Units)</b> Multicultural/International [Pre-Req: GE Foundation & Breadth Area D]
	<b>ECE 71 (3 Units)</b> [Pre-Req: MATH 75 (may be taken concurrently)]	<b>ME 2 (1 Unit)</b> [Pre-Req: MATH 75 (may be taken concurrently)]	<b>ME 31 (3 Units)</b> [Pre-Req: CHEM 1A; MATH 75 (may be taken concurrently)]	<b>CE 20 (3 Units)</b> [Pre-Req: MATH 76; PHYS 4A]	<b>ME 112 (3 Units)</b> [Pre-Req: CE 20; MATH 81 or ENGR 101]	<b>GE Area IC PHIL 120 (3 Units)</b> Arts & Humanities [Pre-Req: GE Foundation & Breadth Area C]	<b>ME 145 (3 Units)</b> [Pre-Req: ME 116, 136; ME 140 (may be taken concurrently)]	<b>ME 155 (3 Units)</b> [Pre-Req: ME 135; UDWS]
	<b>ME 1 (1 Unit)</b>	<b>PHYS 4A (3 Units)</b> [Pre-Req: GE B4; MATH 76 (may be taken concurrently)]	<b>ME 32 (1 Unit)</b> [Pre-Req: ME 31; MATH 75 (may be taken concurrently)]	<b>ECE 91 (3 Units)</b> [Pre-Req: PHYS 4B; MATH 76] *No credit if taken after ECE 90	<b>ME 115 (1 Unit)</b> [Pre-Req: ECE 71, 91, 91L]	<b>ME 116 (3 Units)</b> [Pre-Req: CE 20; MATH 81 or ENGR 101; ME 112 (may be taken concurrently)]	<b>ME 154 (3 Units)</b> [Pre-Req: ME 31; CE 121]	<b>ME 159 (1 Unit)</b> [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	17-18	16	17	18	16-21	16	15	13
<b>Major</b>	<b>ME 26 (3 Units)</b> [Pre-Req: MATH 75 (may be taken concurrently)]	<b>PHYS 4AL (1 Unit)</b> [Co-Req: PHYS 4A]	<b>MATH 77 (4 Units)</b> [Pre-Req: MATH 76]	<b>ECE 91L (1 Unit)</b> [Pre-Req: ECE 91 (may be taken concurrently)]	<b>ME 125 (3 Units)</b> [Pre-Req: MATH 77 (may be taken concurrently)]	<b>ME 118 (1 Unit)</b> [Pre-Req: ENGR 105W or UDWE; May be taken concurrently: ME 115, 116]	<b>Technical Area (3 Units)</b> *See footnotes	<b>ME 166 (3 Units)</b> [Pre-Req: ME 135; UDWS]
		<b>MATH 76 (4 Units)</b> [Pre-Req: MATH 75 or MATH 75A & B]	<b>PHYS 4B (3 Units)</b> [Pre-Req: PHYS 4A; MATH 77 (may be taken concurrently)]	<b>MATH 81 (3 Units)</b> [Pre-Req: MATH 77] *With faculty advisor approval, ENGR 101 may be taken instead of MATH 81	<b>ME 136 (3 Units)</b> [Pre-Req: CHEM 1A; PHYS 4A; MATH 77; upper division standing]	<b>ME 140 (3 Units)</b> [Pre-Req: CE 121; ECE 71; May be taken concurrently: ME 112, 116]		<b>Technical Area (3 Units)</b> *See footnotes
				<b>ME 95 (2 Units)</b> [Pre-Req: ME 26, 31; May be taken concurrently: ME 2, 32; MATH 75]		<b>ME 156 (3 Units)</b> [Pre-Req: ME 136]		
				<b>PHYS 4C (3 Units)</b> [Pre-Req: PHYS 4B; MATH 77]				
<b>Electives</b>					<b>UDWS (0-4 Units)</b> *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 137, 142, 144, 146, 162, or 164). A maximum of 3 units in Group B (ME 180, 190, 191T) 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."