MECHANICAL ENGINEERING

Recommended Program Sequence

Bachelor of Science Degree

(57 Units in Engineering, 129 or 123 Total Units)

Student	ID#	Adviser	
Telephone	Catalog Year	Graduation Date	
Email			
ADVISING SHEET	MAJOR CO	DE: 054402	2015-2016
1ST (Fall) SEMESTER UME 1 Intro to M E ME 26 Engr Graphics ECE71/CSCI 40 Intro Programming GE Area A2 English 10 MATH 75* Math Analysis I	Inits Grade Sem Transfer 1	2 nd (Spring) SEMESTER U ME 2 Cmpt App in ME CHEM 1A Gen Chemistry MATH 76* Math Analysis II PHYS 4A* Mech+Wave Motion PHYS 4AL Lab Mech+Wave	nits Grade Sem Transfer 1
GE Area B2 ² Life Sciences	<u>3</u>	GE Area D1 Hist 11 or 12	<u>3</u>
3rd (Fall) SEMESTER ME 31 Engr Materials ME 32 Engr Materials Lab MATH 77* Math Analysis III PHYS 4B * Elec+Mag+Heat GE Area A1 Comm 3,7, or 8 GE Area C2 PHIL 20 5th (Fall) SEMESTER ME 112* Engr Mech: Dyn ME 115 Instu & Meas Lab ME 136* Thermodynamics ME 125 Engr Stat & Expt CE Area C12* Area of 15th decision	3	4 th (Spring) SEMESTER ME 95 Manuf Processes CE 20 Engr Mech Statics ECE 91 Inro Elec Engr ECE 91L Elec Cir Lab MATH 81 ^{4*} Applied Analysis PHYS 4C Light + Mod Phys GE Area D2 Pl Si 2 6 th (Spring) SEMESTER ME 116* Fluid Mechanics ME 118 Fluid Mech Lab ME 156 Adv Thermo ME 134 ¹ Kinematics of Mach GE Area D3 ² Social Sciences	3
GE Area C1 ² Arts or fulfilled major NOTE: Completion of UD Writing Exam or	16	GE Area M/I PL SI 120	<u>3</u>
	Dept. Approved writing Course.	-th	
7 th (Fall) SEMESTER Technical Area Course ³	3	8 th (Spring) SEMESTER Technical Area Course ³	3
ME 135 Intro Dsgn-Sr Cap I ME 140 Adv Engr Analysis ME 145 Heat+Mass Trans ME 154 Dsgn of Mach Elem	3 3 3 3 3	ME 155 Sr Cap Design II ME 166 Energy Sys Design ME 159 Mech Sys Dsgn Lab GE Area IC PHIL120 or fulfilled majo	3 3 1
lat : CDA	15		13

NOTE: Department approved writing course or equivalent must be taken in the junior year if the student fails the writing exam requirement.

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¹Also counts as major GPA

²See Catalog for G.E. Courses

³Take a minimum of 6 units in Group A (ME 137, 142, 144, 146, 162 or 164 (to be offered in alternate years). A maximum of 3 units from Group B (ME 180, 190, 191T) may be substituted for a course in Group A with faculty adviser's approval.

⁴Engr 101 may be taken as an alternative with adviser's approval.

^{*} Must have a minimum grade of "C"

Bachelor of Science Degree in Mechanical Engineering

2015-2016

TAT	ajor Requirement(66)
	ME 1, 2, 26, 31, 32, 95, 112, 115, 116, 118, 125, 135, 136, 140
	145, 154, 156(40)
	CE 20, 121
	ECE71/CSCI40, ECE 91 and ECE 91 L (7)
	Design Applications(7)
	Design Application: ME 155, ME 159 and ME 166
	Technical Area Courses(6)
	Take a minimum of three units from the courses offered in Group A: ME 137, 142, 144, 146, 162, or 164.
	A maximum of three units from Group B may be substituted for a course in
	Group A with faculty advisor's approval: ME 180, 190, 191T; ECE 121, 121L, 155
Ot	her Requirements63
1.	General Education(36 or 42)
1.	General Education
1.	
1.	COMM 3, 7, or 8 (GE Area A1); (ENGL 1 (GE Area A2); HIST 11 or 12 (GE Area D1) and select one course from each of the following GE Areas: B2, C1 or fulfilled by major, and D3 The following courses are required to satisfy both GE and major requirements
1.	COMM 3, 7, or 8 (GE Area A1); (ENGL 1 (GE Area A2); HIST 11 or 12 (GE Area D1) and select one course from each of the following GE Areas: B2, C1 or fulfilled by major, and D3 The following courses are required to satisfy both GE and major requirements CHEM 1A (GE Area B1)
1.	COMM 3, 7, or 8 (GE Area A1); (ENGL 1 (GE Area A2); HIST 11 or 12 (GE Area D1) and select one course from each of the following GE Areas: B2, C1 or fulfilled by major, and D3 The following courses are required to satisfy both GE and major requirements CHEM 1A (GE Area B1)
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	COMM 3, 7, or 8 (GE Area A1); (ENGL 1 (GE Area A2); HIST 11 or 12 (GE Area D1) and select one course from each of the following GE Areas: B2, C1 or fulfilled by major, and D3 The following courses are required to satisfy both GE and major requirements CHEM 1A (GE Area B1)
	COMM 3, 7, or 8 (GE Area A1); (ENGL 1 (GE Area A2); HIST 11 or 12 (GE Area D1) and select one course from each of the following GE Areas: B2, C1 or fulfilled by major, and D3 The following courses are required to satisfy both GE and major requirements CHEM 1A (GE Area B1)

Advising Notes:

- 1. Courses in mathematics, the physical sciences, or engineering taken CR/NC are not counted toward fulfillment of degree requirements in mechanical engineering.
- 2. Mechanical engineering majors might consider a math, physics, or business minor.
- 3. Since the mechanical engineering major curriculum is very demanding, many students, especially those not fully prepared in mathematics, chemistry and/or physics, take 4-1/2 or more years to graduate rather than the traditional 4 years.
- 4. *Advising is mandatory* in the Lyles College of Engineering. A registration hold will be placed on students who fail to see their adviser at least once per academic year.
- 5. The Upper-Division Writing Skills requirement has to be completed no sooner than the term in which 60 units of coursework are completed or no later than the term in which 90 units are completed. This requirement can be met by passing the university writing examination or by taking ENGR 105W or a department-approved writing course. Must be taken and passed with a letter grade of "C" or better in the junior year if the student fails the writing exam requirement.

6. With faculty adviser approval, ENGR 101 may be taken instead of MATH 81.

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