

MECHANICAL ENGINEERING

Recommended Program Sequence

Bachelor of Science Degree

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

Student _____	ID# _____	Adviser _____
Telephone _____	Catalog Year _____	Graduation Date _____
Email _____		

ADVISING SHEET

MAJOR CODE: 054402

2015-2016

1 ST (Fall) SEMESTER				2 nd (Spring) SEMESTER							
		Units	Grade	Sem	Transfer			Units	Grade	Sem	Transfer
ME 1	Intro to M E	1	___	___	___	ME 2	Cmpt App in ME	1	___	___	___
ME 26	Engr Graphics	3	___	___	___	CHEM 1A	Gen Chemistry	5	___	___	___
ECE71/CSCI 40	Intro Programming	4	___	___	___	MATH 76*	Math Analysis II	4	___	___	___
GE Area A2	English 10	3	___	___	___	PHYS 4A*	Mech+Wave Motion	4	___	___	___
MATH 75*	Math Analysis I	4	___	___	___	PHYS 4AL	Lab Mech+Wave	1	___	___	___
GE Area B2 ²	Life Sciences	3	___	___	___	GE Area D1	Hist 11 or 12	3	___	___	___
		18						17			

3 rd (Fall) SEMESTER				4 th (Spring) SEMESTER							
ME 31	Engr Materials	3	___	___	___	ME 95	Manuf Processes	2	___	___	___
ME 32	Engr Materials Lab	1	___	___	___	CE 20	Engr Mech Statics	3	___	___	___
MATH 77*	Math Analysis III	4	___	___	___	ECE 91	Inro Elec Engr	3	___	___	___
PHYS 4B *	Elec+Mag+Heat	3	___	___	___	ECE 91L	Elec Cir Lab	1	___	___	___
GE Area A1	Comm 3,7, or 8	3	___	___	___	MATH 81 ^{4*}	Applied Analysis	3	___	___	___
GE Area C2	PHIL 20	3	___	___	___	PHYS 4C	Light + Mod Phys	3	___	___	___
		17				GE Area D2	PL Si 2	3	___	___	___
								18			

5 th (Fall) SEMESTER				6 th (Spring) SEMESTER							
ME 112*	Engr Mech: Dyn	3	___	___	___	ME 116*	Fluid Mechanics	3	___	___	___
ME 115	Instu & Meas Lab	1	___	___	___	ME 118	Fluid Mech Lab	1	___	___	___
ME 136*	Thermodynamics	3	___	___	___	ME 156	Adv Thermo	3	___	___	___
ME 125	Engr Stat & Expt	3	___	___	___	ME 134 ¹	Kinematics of Mach	3	___	___	___
CE 121	Mech of Mtls	3	___	___	___	ME 140	Adv Engr Analysis	3	___	___	___
GE Area C1 ²	Arts or fulfilled major	3	___	___	___	GE Area IC	PHIL 120 or fulfilled major	3	___	___	___
		16						16			

NOTE: Completion of UD Writing Exam or Dept. Approved Writing Course.

7 th (Fall) SEMESTER				8 th (Spring) SEMESTER							
Technical Area Course ³		3	___	___	___	Technical Area Course ³		3	___	___	___
ME 135	Intro Dsgn-Sr Cap I	3	___	___	___	ME 155	Sr Cap Design II	3	___	___	___
ME 145	Heat+Mass Trans	3	___	___	___	ME 166	Energy Sys Design	3	___	___	___
ME 154	Dsgn of Mach Elem	3	___	___	___	ME 159	Mech Sys Dsgn Lab	1	___	___	___
GE Area D3 ²	Social Sciences	3	___	___	___	GE Area M/I	PL SI 120	3	___	___	___
		15						13			

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.

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

*** Must have a minimum grade of "C"**

Bachelor of Science Degree in Mechanical Engineering

2015-2016

Major Requirement(66)

ME 1, 2, 26, 31, 32, 95, 112, 115, 116, 118, 125, 135, 136, 140
145, 154, 156.....(40)
CE 20, 121.....(6)
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

Other Requirements63

1. General Education(36 or 42)

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)..... MATH 75 (GE Area B4)
PHIL 20 (GE Area C2) PL SI 2 (GE Area D2)
ME 134 (GE Area 1B)..... PHIL 120 or fulfilled by major (GE Area IC)
PL SI 120 (GE Area M/I)

2. Additional Requirements(21)

MATH 76, 77, 81; PHYS 4A, 4AL, 4B, 4C

TOTAL123 or 129

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.