

MECHANICAL ENGINEERING

Recommended Program Sequence

Bachelor of Science Degree

(57 Units in Engineering, 129 Total Units)

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

ADVISING SHEET

MAJOR CODE: 054402

2014-2015

1 ST (Fall) SEMESTER				2 nd (Spring) SEMESTER			
Units	Grade	Sem	Transfer	Units	Grade	Sem	Transfer
ME 1	Intro to ME	1	___	ME 2	Cmpt App in ME	1	___
ME 26	Engr Graphics	3	___	CHEM 1A	Gen Chemistry	5	___
ECE 71	Engr Comptatn	3	___	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	___
		17				17	
3 rd (Fall) SEMESTER				4 th (Spring) SEMESTER			
ME 31	Engr Materials	3	___	ME 95	Product Devp.	2	___
ME 32	Engr Materials Lab	1	___	CE 20	Engr Mech Statics	3	___
MATH 77*	Math Analysis III	4	___	ECE 91	Intro 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 134 ¹	Dyn in Mach Dsgn	3	___
ME 125	Engr Stat & Expt	3	___	ME 140	Adv Engr Analysis	3	___
CE 121	Mech of Mtls	3	___	GE Area D3 ²	Social Sciences	3	___
GE Area C1 ²	Arts	3	___	GE Area M/I	PL SI 120	3	___
		16				16	
7 th (Fall) SEMESTER				8 th (Spring) SEMESTER			
ME 145	Heat+Mass Trans	3	___	Technical Area Course ³		3	___
ME 154	Dsgn of Mach Ele	3	___	ME 166	Energy Sys Design	3	___
ME 156	Ad Thermo	3	___	ME 155	Ele of Sys Design	3	___
ME 135	Product Design	3	___	ME 159	Mech Sys Dsgn Lab	1	___
Technical Area Course ³		3	___	GE Area IC	PHIL 120	3	___
		15				13	

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

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

2014-2015

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)
ECE 71, 91 or 90, 91L or 90L.....	(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 (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, 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 (GE Area IC)
PL SI 120 (GE Area M/I)	

2. Additional Requirements(21)

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

TOTAL129

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.