

MECHANICAL ENGINEERING CURRICULUM

(Effective: April, 2016)

Student Name: _____ Advisor: _____

TRANSFER or PRE-FRESHMAN CREDITS

_____	()	_____	[]	from _____	on _____
_____	()	_____	[]	from _____	on _____
_____	()	_____	[]	from _____	on _____
_____	()	_____	[]	from _____	on _____
_____	()	_____	[]	from _____	on _____
_____	()	_____	[]	from _____	on _____

<u>COURSE</u>	<u>C.H.</u>	<u>CODE</u>	<u>GRADE</u>	<u>PREREQUISITES</u>
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FRESHMAN YEAR

FIRST TERM (16 cr.)

Intro. to Engineering	(2)	EGGG 101	[]	NOTE: EGGG101 counts as University FYE requirement
General Chemistry	(4)	CHEM 103 or CHEM 107	[]	(MATH 114 or higher)
Gen. Comp. Sci. for Engineers	(3)	CISC 106	[]	(Coreq MATH 241)
Analy. Geom. & Calc. A	(4)	MATH 241	[]	
Crit. Read & Writing	(3)	ENGL 110	[]	

WINTER SESSION (___ cr.)

_____ () _____ []

SECOND TERM (14 cr.)

Statics	(3)	MEEG 112	[]	(Coreq MATH 242, Coreq PHYS 207) NOTE: CIEG211, Statics, is equivalent to MEEG112 NOTE: C- minimum grade in Statics to progress
Anal. Geom. & Calc. B	(4)	MATH 242	[]	(MATH 241)
Fund. of Physics I	(4)	PHYS 207	[]	(Coreq MATH 241)
Gen. Ed. Elective	(3)	_____	[]	

SOPHOMORE YEAR

FIRST TERM (17 cr.)

Dynamics	(3)	MEEG 211	[]	(C- or better in MEEG 112) NOTE: CIEG311, Dynamics, is equivalent to MEEG211 NOTE: C- minimum grade in Dynamics to progress
Mechanics of Solids	(3)	MEEG 215	[]	(C- or better in MEEG 112) NOTE: CIEG212, Solid Mech., is equivalent to MEEG215 NOTE: C- minimum grade in Mechanics of Solids to progress
Mechanics of Solids Lab	(1)	MEEG 216	[]	(Coreq MEEG 215)
Anal. Geom. & Calc. C	(4)	MATH 243	[]	(MATH 242)
Engineering Math I	(3)	MATH 351	[]	(Coreq MATH 243)
Gen. Ed. Elective	(3)	_____	[]	

WINTER SESSION (___ cr.)

_____ () _____ []

SECOND TERM (16 cr.)

Comp.-Aid. Engr. Design	(3)	MEEG 202	[]	
Matls. Science for Engineers	(3)	MSEG 302	[]	(CHEM 103, PHYS 207)
Engineering Math II	(3)	MATH 352	[]	(MATH 351)
Numerical Methods	(3)	MATH 353	[]	(MATH 351, CISC106)
Intro. to Electric.&Electronics	(4)	PHYS 245	[]	(PHYS 207, Coreq MATH 243)

COURSE C.H. CODE GRADE PREREQUISITES

JUNIOR YEAR

FIRST TERM (17 cr.)

Mach. Des. - Kinem.&Kin.	(3)	MEEG 301	[]	(C- or better in MEEG 211)
Vibration & Control	(3)	MEEG 311	[]	(C- or better in MEEG 211)
Vibration & Control Lab	(1)	MEEG 312	[]	(Coreq MEEG 311)
Materials Engineering	(3)	MEEG 321	[]	(C- or better in MEEG 215, MSEG 302)
Fluid Mechanics I	(3)	MEEG 331	[]	(C- or better in MEEG 112, MATH 351)
				NOTE: CIEG305, Fluid Mech., is equivalent to MEEG331
Fluids Mechanics Lab	(1)	MEEG 333	[]	(Coreq MEEG 331)
				NOTE: CIEG306, Fluid Mech. Lab, is equivalent to MEEG333
Thermodynamics	(3)	MEEG 341	[]	(Coreq MATH 351)

WINTER SESSION (__ cr.)

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SECOND TERM (16 cr.)

Mach. Des. - Elements	(3)	MEEG 304	[]	(C- or better in MEEG 215, MEEG 301, Coreq MEEG 202)
Fluid Mechanics II	(3)	MEEG 332	[]	(MEEG 331, MATH 352)
Heat Transfer	(3)	MEEG 342	[]	(MEEG341, MATH352, Coreq MATH 353)
Thermal Lab	(1)	MEEG 346	[]	(MEEG341, Coreq MEEG 342)
Technical Elective	(3)	_____	[]	
Gen. Ed. Elective	(3)	_____	[]	

SENIOR YEAR

FIRST TERM (15 cr.)

Senior Design	(6)	MEEG 401	[]	(MEEG 304)
		[or, if offered, MEEG402]		NOTE: MEEG401/2 counts as University DLE requirement
Technical Elective	(3)	_____	[]	
Technical Elective	(3)	_____	[]	
Gen. Ed. Elective	(3)	_____	[]	

WINTER SESSION (__ cr.)

_____	()	_____	[]	
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SECOND TERM (12 cr.)

Technical Elective	(3)	_____	[]	
Technical Elective	(3)	_____	[]	
Gen. Ed. Elective	(3)	_____	[]	
Gen. Ed. Elective	(3)	_____	[]	

UNIVERSITY GENERAL EDUCATION (GenEd) including College Breadth ELECTIVES

University requirements

Critical Reading and Writing	(3)	ENGL 110	[Freshman year]	C- minimum grade
Multicultural	(3)	_____		[(M) normally part of GenEd; last col., below]
FYE	(2)	EGGG101	[Freshman year]	
DLE	(6)	MEEG401/2	[Senior year]	

Note: Minimum Grade of C- required in all graded General Education courses

GenEd - Math/Natural Science/Technology (MNST ≥ 3 cr) (variable) [normally CHEM, MATH, or PHYS, Freshman year]

GenEd (Breadth 1) - Creative Arts and Humanities (CAH ≥ 3 cr) (3) _____ [] () ()

GenEd (Breadth 2) - History and Cultural Change (HCC ≥ 3 cr) (3) _____ [] () ()

GenEd (Breadth 3) - Social and Behavioral Sciences (SBS ≥ 3 cr) (3) _____ [] () ()
(U) (M)

GenEd College: 21 credits; includes the ≥12 credits in the MNST, CAH, HCC, SBS areas above - no more than one course taken from any single rubric; that is, the four-letter subject code, plus ≥ 9 credits in the CAH, HCC, SBS areas or from the College's Supplemental Course List (S). Of the 21 credits, ≥ 6 credits (from the CAH, HCC, SBS, or College list) must be at the upper level (U).

(Breadth 4)	(3)	_____	[]	()	()
(Breadth 5)	(3)	_____	[]	()	()
(Breadth 6)	(3)	_____	[]	()	()
				(U)	(M)