

MECHANICAL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE

Effective Fall 2014

FRESHMAN YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
MATH 1124	Calculus I	4	MATH 2024	Calculus II	4
GNEG 1121	Eng. Appl. Lab II for Mathematics	1	GNEG 2021	Eng. Appl. Lab III for Mathematics	1
MCEG 1011	Intro Eng CS Tech	1	PHYS 2513	University Physics I	4
MCEG 1021	Mechanical Drawing	1	& PHYS 2511	University Physics Lab I	
COMM 1003	Fund. of Speech Communication	3	ENGL 1143	Technical Writing	3
ENGL 1123	Freshman Composition I	3	CHEM 1034	Chemistry for Engineers	4
ELEG 1043	Computer Appl. In Engineering	3	CHEM 1021	Inorganic Chemistry Lab II	1
Total		16	Total		17

SOPHOMORE YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
HIST 1313	U.S. to 1876	3	MATH 2043	Differential Equations	3
CVEG 2043	Engineering Mechanics I	3	CVEG 2053	Engineering Mechanics II	3
POSC 1113	American Government I	3	CVEG 2063	Mechanics of Materials	3
MCEG 2023	Materials Science and Engineering	3	MCEG 2013	Thermodynamics I	3
PHYS 2523	University Physics II	4	MATH 3023	Probability & Statistics	3
& PHYS 2521	University Physics Lab II		CHEG 2003	Economic Analysis & Tech. Appl.	3
Total		16	Total		18

SUMMER SESSIONS

<i>First Semester</i>		<i>Hours</i>
*MCEG 3156	Mechanical Engineering Internship I	6
Total		6

JUNIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
MCEG 3043	Machine Design I	3	MCEG 3023	Thermodynamics II	3
MCEG 3013	Heat Transfer	3	POSC 1123	American Government II	3
MATH 4173	Adv. Math for Engineers	3	MCEG 3033	Manufacturing Processes	4
MCEG 3053	Kinematic Design and Analysis	3	& MCEG 3031	Manufacturing Processes Lab	
MCEG 3063	Fluid Mechanics	3	MCEG 3021	Thermal Science Lab	1
MCEG 3011	Measurement/Instrumentation Lab	1	ELEG 2053	Intro. to Electrical Eng.	3
Total		16	Total		14

SUMMER SESSIONS

<i>First Semester</i>		<i>Hours</i>
*MCEG 4156	Mechanical Engineering Internship II	6
Total		6

SENIOR YEAR

<i>First Semester</i>		<i>Hours</i>	<i>Second Semester</i>		<i>Hours</i>
MCEG 4093	Finite Element Analysis and Design	3	MCEG 4063	Dynamic Sys. & Controls	3
MCEG 4472	Sr. Design & Professionalism I	2	MCEG 4482	Sr. Design & Professionalism II	2
GNEG 3061	Intro to Engi. Proj. Management	1	HIST 1323	U.S. 1876 to Present	3
MCEG 4043	Machine Design II	3		Technical Elective	3
	Creative Arts Elective	3		Language, Philosophy & Culture	3
	Technical Elective	3			
Total		15	Total		14

* Course may be taken for credit during a summer internship, but is not required in degree plan.

Note: Most courses in the College of Engineering will be offered only once a year. Courses listed in the **First Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the fall semester and may not be available in the spring and summer semesters. Courses listed in the **Second Semester** in the **SUGGESTED DEGREE PROGRAM SEQUENCE** will be offered in the spring semester and may not be available in the fall and summer semester.