

MECHANICAL ENGINEERING SUGGESTED DEGREE PROGRAM SEQUENCE  
Effective Fall 2017

**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
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>17</b>

**SUMMER SESSIONS**

<i>First Semester</i>	<i>Hours</i>
*GNEG 2156    Engineering Cooperative Education I	0
<b>Total</b>	<b>0</b>

**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	MCEG 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
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>18</b>

**SUMMER SESSIONS**

<i>First Semester</i>	<i>Hours</i>
*MCEG 3156    Mechanical Engineering Internship I	0
<b>Total</b>	<b>0</b>

**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 3011    Measurement/Instrumentation Lab	1	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
Creative Arts Elective	3	ELEG 2053    Intro. to Electrical Eng.	3
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>14</b>

**SUMMER SESSIONS**

<i>First Semester</i>	<i>Hours</i>
*MCEG 4156    Mechanical Engineering Internship II	0
<b>Total</b>	<b>0</b>

**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
MCEG 3013    Heat Transfer	3	Language, Philosophy & Culture	3
Technical Elective	3		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14</b>

**Total Hours: 126**

\* 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.