

### Engineering Physics - Mechanical Engineering Option (BS)

Suggested Plan of Study

2019-2020 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
ENGR 1023 Introduction to Engineering	3	ENGR 2143 Statics	3
PHYS 2203/2201 University Physics I/Lab	4	PHYS 2213/2211 University Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	ENGR 2020 Engineering Exams	0
ENGR 2020 Engineering Exams	0		
<b>Total Semester Hours</b>	<b>17</b>	<b>Total Semester Hours</b>	<b>15</b>
Fall - Semester 3		Spring - Semester 4	
MATH 2563 Calculus III	3	CSCI 2103 Computer Science I	3
ENGR 1021 Introduction to Engineering Lab	1	CHEM 1123/1121 University Chemistry II/Lab	4
CHEM 1023/1021 University Chemistry I/Lab	4	ENGR 2043 Properties of Materials	3
ENGR 1213 Engineering Graphics	3	ENGR 2163 Dynamics	3
ENGR 2033 Electrical Circuits I	3	MATH 3033 Differential Equations	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
<b>Total Semester Hours</b>	<b>14</b>	<b>Total Semester Hours</b>	<b>16</b>
Fall - Semester 5		Spring - Semester 6	
* HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	ENGR 3163 Computer Aided Engineering Analysis	3
ENGR 3013 Thermodynamics	3	ENGR 3023 Heat Transfer	3
ENGR 3033 Fluid Mechanics	3	ENGR 3111 Thermal Fluid Science Lab	1
ENGR 3101 Solid Mechanics Lab	1	ENGR 3083 Numerical Methods in Engineering	3
ENGR 3043 Mechanics of Materials	3	ENGR 3143 Manufacturing Processes	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
<b>Total Semester Hours</b>	<b>13</b>	<b>Total Semester Hours</b>	<b>13</b>
Fall - Semester 7		Spring - Semester 8	
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3
ENGR 4153 Heating, Ventilation, and Air Conditioning	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, or THEA 2003)	3
ENGR 4013 Machine Design	3	UL Engineering or Physics Electives	8
ENGR 3073 Engineering Economics	3	UL physics or engineering electives (ENGR 4123 Senior Design Project II recommended)	3
ENGR 4023 Senior Design Project I	3	ENGR 2020 Engineering Exams	0
ENGR 2020 Engineering Exams	0		
<b>Total Semester Hours</b>	<b>15</b>	<b>Total Semester Hours</b>	<b>17</b>

Total hours required for major – 120

\*Note: Must have three hours of US history/government.