

Engineering (BSEng) – 129 hours

Suggested Plan of Study

2017-2018 Catalog

Fall – Semester 1		Spring – Semester 2	
GSTD 1002 Freshman Seminar	2	ENGR 2143 Statics	3
ENGR 1023 Introduction to Engineering	3	ENGR 1021 Introduction to Engineering Lab	1
MATH 1525 Calculus I	5	MATH 1545 Calculus II	5
PHYS 2203/2201 University Physics I/Lab	4	PHYS 2213/2211 University Physics II/Lab	4
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
Total Semester Hours	17	Total Semester Hours	16
Fall – Semester 3		Spring – Semester 4	
ENGR 2033 Electric Circuits I	3	ENGR 2043 Properties of Materials	3
ENGR 1212 Engineering Graphics	2	ENGR 2163 Dynamics	3
MATH 2563 Calculus III	3	MATH 3033 Differential Equations	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 Univ. Chemistry II/Lab	4
BIOL 1103/1101 University Biology I/Lab	4	CSCI 2103 Computer Science I	3
Total Semester Hours	16	Total Semester Hours	16
Fall – Semester 5		Spring – Semester 6	
ENGR 3013 Thermodynamics	3	ENGR 3112 Thermal Fluid Science Lab	2
ENGR 3043 Mechanics of Materials	3	ENGR 3083 Numerical Methods in Eng.	3
ENGR 3003 Fluid Mechanics	3	ENGR 3023 Heat Transfer	3
ENGR 3102 Solid Mechanics Lab	2	ENGL 3003 Advanced Professional Writing	3
ENGR 3123 Manufacturing Processes	3	*HIST 1003 or 1013 World History I or II, or HIST 2013 or 2023 U.S. History I or II, or PSCI 2003 American Government: National	3
ENGL 2213 or 2223 World Literature I or II	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, THEA 2003, or Foreign Language)	3
Total Semester Hours	17	Total Semester Hours	17
Fall – Semester 7		Spring – Semester 8	
ENGR 3073 Engineering Economics	3	ENGR 4703 Work Experience Learning (Internship)	3
ENGR 4033 Instrumentation and Control	3	ENGR 4023 Senior Design Project	3
ENGR 4013 Machine Design	3	Upper-Level Engineering or Physics Elective	3
ENGR 4993 Mechanical Engineering Proficiency	3	Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3
*HIST 1003 or 1013 World History I or II, or HIST 2013 or 2023 U.S. History I or II, or PSCI 2003 American Government: National	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, THEA 2003, or Foreign Language)	3
Total Semester Hours	15	Total Semester Hours	15

*Note: Must have six hours of history/government. Three hours must be World History I or II. Three hours must be U.S. History I, U.S. History II, or American Government: National.