

### Engineering-Physics: Science 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	PHYS 2213/2211 University Physics II/Lab	4
PHYS 2203/2201 University Physics I/Lab	4	ENGR 1021 Introduction to Engineering Lab	1
GSTD 1002 Freshman Seminar	2	ENGR 2143 Statics	3
		ENGR 2020 Engineering Exams	0
Total Semester Hours	17	Total Semester Hours	16
Fall - Semester 3		Spring - Semester 4	
MATH 2563 Calculus III	3	MATH 3033 Differential Equations	3
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
ENGR 2033 Electrical Circuits I	3	MATH 2753 Linear Algebra	3
PHYS 3053 Modern Physics	3	CSCI 2103 Computer Science I	3
ENGR 1213 Engineering Graphics	3	PHYS 3033 Electromagnetism	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Total Semester Hours	16	Total Semester Hours	16
Fall - Semester 5		Spring - Semester 6	
ENGR 3003 Fluid Mechanics	3	ENGR 3023 Heat Transfer	3
CSCI 2113 Computer Science II	3	ENGR 3073 Engineering Economics	3
ENGR 3013 Thermodynamics	3	ENGR 3211 Thermal Fluid Science Lab	1
PHYS 3113 Advanced Physics Laboratory	3	PHYS 4013 Optics	3
ENGR 3101 Solid Mechanics Lab	1	ENGR 3163 Computer Aided Engineering Analysis	3
ENGR 2020 Engineering Exams	0	ENGR 2020 Engineering Exams	0
Total Semester Hours	13	Total Semester Hours	13
Fall - Semester 7		Spring - Semester 8	
Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003, Foreign Language)	3	Social Science choice (ECON 2103, FIN 2003, GEOG 2003, HIST 1003, HIST 1013, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3
*HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3	PHYS 4053 Quantum Mechanics	3
PHYS 4043 Analytical Mechanics	3	UL electives (ENGR, MATH, PHYS recommended)	8
Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, or THEA 2003)	3	ENGR 2020 Engineering Exams	0
UL elective (ENGR, MATH, PHYS recommended)	3		
ENGR 2020 Engineering Exams	0		
Total Semester Hours	15	Total Semester Hours	14

Total hours required for major – 120

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