Engineering Physics Chemical Engineering Option (BS)

Suggested Plan of Study 2015-2016 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
CHEM 1023/1021 University Chemistry I/Lab	4	CHEM 1123/1121 University Chemistry II/Lab	4
PHYS 2203/2201 University Physics I/Lab	4	PHYS 2213/2211 University Physics II/Lab	4
GSTD 1002 Freshman Seminar	2		
Total Semester Hours	**18**	Total Semester Hours	**16**
Fall - Semester 3		Spring - Semester 4	
CHEM 3003/3001 Organic Chemistry I/Lab	4	BIOL 1103/1101 University Biology I/Lab	4
ENGR 1023 Introduction to Engineering/Lab	4	CSCI 2103 Computer Science I	3
ENGR 2143 Statics	3	ENGR 2053 Chemical Engineering Fundamentals	3
MATH 2563 Calculus III	3	ENGR 3053 Properties of Materials	3
ENGR 1212 Graphics	2	MATH 3043 Differential Equations	3
Total Semester Hours	**16**	Total Semester Hours	**16**
Fall - Semester 5		Spring - Semester 6	
ENGR 3013 Thermodynamics	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
ENGR 3003 Fluid Mechanics	3	ENGR 3023 Heat Transfer	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	ENGR 3112 Thermal Fluid Science Lab	2
ENGR 3043 Mechanics of Materials	3	ENGR 4013 Machine Design	3
ENGR 4033 Instrumentation and Control Systems	3	World Literature I/II (ENGL 2213 or ENGL 2223)	3
ENGR 3102 Solid Mechanics Lab	2	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 4043 Chemical Engineering Reactor Design	3	ENGL 3003 Advanced Professional Writing	3
Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, or THEA 2003)	3	ENGR 4023 Senior Design Project	3
ENGR 4992 Engineering Proficiency	2	ENGR 4003 Numerical Methods in Engineering	3
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)	3	ENGR 4703 Work Experience Learning I	3
Cooperative Chemical Engineering Elective	3	ITEC 3073 Engineering Economic Analysis	3
ENGR 3063 Mass Transfer	3	Cooperative Chemical Engineering Elective	3
Total Semester Hours	**17**	Total Semester Hours	**18**

Total hours required for major – 135

*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.