

**Engineering Physics Major
Industrial Technology Option (B.S.)**

Suggested Plan of Study

2011-2012 Catalog

Fall – Semester 1		Spring - Semester 2	
ENGL 1023 Composition I	3	ENGL 1123 Composition II	3
Social Science choice (ECON 2103 or FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, or SOC 1003 or 2003)	2	MATH 1033 Plane Trigonometry	3
MATH 1023 College Algebra	3	*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II	3
SPCH 1113 Introduction to Public Speaking	3	PHED 1501 Concepts of Physical Activity and Wellness	1
***Basic Technical Core Elective	4	***Basic Technical Core Elective	4
GSTD 1002 Freshman Seminar	2	***Basic Technical Core Elective	3
Total Semester Hours	17	Total Semester Hours	17
Fall - Semester 3		Spring - Semester 4	
Literature/Philosophy (ENGL 2213, ENGL 2223, PHIL 2403)	3	Literature/Philosophy (ENGL 2213, ENGL 2223, PHIL 2403)	3
PHYS 2003/2001 College Physics I/Lab	4	***Basic Technical Core Elective	4
CSCI 1102/1101 Introduction to Computing/Lab	3	BSCI 1103/1011 Biological Science/Lab	4
Humanities choice (ART 2013, HUM 2003, MUS 2013, THEA 2003 or Foreign Language)	3	Humanities choice (ART 2013, HUM 2003, MUS 2013, THEA 2003)	3
*HIST 1003 or 1013 World History I or II OR HIST 2013 or 2023 U.S. History I or II	3	**Basic Technical Core Elective	3
PHED 1 1 PE Activity	1		
Total Semester Hours	17	Total Semester Hours	17
Fall - Semester 5		Spring - Semester 6	
***Basic Technical Core Elective	4	**ITEC 3503 Computational Methods of Industrial Technology	3
Social Science choice (ECON 2103 or FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, or SOC 1003 or 2003)	3	ENGR 2023 Fundamentals of Manufacturing Processes	3
***Basic Technical Core Elective	3	ITEC 4123 Computer Aided Manufacturing	3
MATH 2123 Applied Calculus for Technology	3	ITEC 3032 Industrial Safety	2
Work Experience or UL Technical Elective	3	MATH 3043 Introduction to Applied Probability and Statistics	3
		***Basic Technical Core Elective	3
Total Semester Hours	16	Total Semester Hours	17
Fall - Semester 7		Spring - Semester 8	
PSYC 4023 Industrial and Organizational Psychology	3	Work Experience or UL Technical Elective	3
ITEC 4004 Manufacturing Policy and Ethics	4	ITEC 3003 Quality Control	3
ITEC 4044 Advanced Manufacturing Systems	4	ITEC 3012 Maintenance	2
Work Experience or UL Technical Elective	3	ITEC 3023 Production and Inventory Control	3
		ITEC 3263 Operations Management I	3
		ITEC 3043 Work Analysis: The Study of Motion, Time and Ergonomics	3
Total Semester Hours	14	Total Semester Hours	17

Total hours required for Major – 132

*Note: Must have six hours of history. Three hours must be World History I or II and three hours of U.S. History I or II OR six hours of World History as well as the social science choice - American Government: National.

** Prerequisite for ITEC 3503 may be substituted with the consent of the instructor.

***Basic Technical Core Elective: Accounting, Agricultural Economics, Animal Science, Biology, Chemistry, Management Information Systems, Computer Science, Economics, Engineering, Entomology, Finance, Forestry, General Business, Geology, Industrial Technology, Mathematics, Management, Marketing, Physics, Speech, Spanish, French, Russian.