

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

Suggested Plan of Study

2012-2013 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1023 Composition I	3	ENGL 1123 Composition II	3
MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	3
BIOL 1103/1101 Introduction to Biology/Lab	4	*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
***Basic Course Elective	3	***Basic Course Elective	3
GSTD 1002 Freshman Seminar	2	***Basic Course Elective	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 3		Spring - Semester 4	
World Literature I/II (ENGL 2213 or ENGL 2223)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, THEA 2003)	3
Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3	ENGR 2023 Fundamentals of 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	***Basic Course Elective	3
Physical Science Choice/Lab (CHEM 1013/1011, CHEM 1023/1021, CHEM 1133/1131, GEOL 1003/1001, PHSC 2023/2021, PHYS 2003/2001, or PHYS 2203/2201)	4	***Basic Course Elective	3
ITEC 2032 Industrial Safety	2	***Basic Course Elective	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 5		Spring - Semester 6	
Social Science choice (ECON 2103, FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, SOC 1003 or SOC 2003)***Basic Course Elective	3	**ITEC 3503 Computational Methods of Industrial Technology	3
ITEC 3003 Quality Control	3	ITEC 3023 Production and Inventory Control	3
MATH 2123 Applied Calculus for Technology	3	MATH 3043 Introduction to Applied Probability and Statistics	3
***Basic Technical Core Elective	3	Work Experience or UL Technical Elective	3
***Basic Course Elective	3	***Basic Course Elective	3
Total Semester Hours	15	Total Semester Hours	15
Fall - Semester 7		Spring - Semester 8	
ITEC 3043 Work Analysis: The Study of Motion, Time and Ergonomics	3	ITEC 3012 Maintenance	2
ITEC 3263 Operations Management I	3	ITEC 3073 Engineering Economic Analysis	3
ITEC 3803 Industrial Materials	3	ITEC 3363 Operations Management II	3
Work Experience or UL Technical Elective	3	ITEC 4044 Advanced Manufacturing Systems	4
***Basic Course Elective	3	Work Experience or UL Technical Elective	3
Total Semester Hours	15	Total Semester Hours	15

Total hours required for Major – 120

*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.

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

***Basic Course Electives: 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.