

**Engineering Physics Major  
Industrial Technology Option**

Suggested Plan of Study

2010-2011 Catalog

Fall - Semester 1		Spring - Semester 2	
ENGL 1023 Composition I	3	ENGL 1123 Composition II	3
GSTD 1002 Freshman Seminar	2	MATH 1033 Plane Trigonometry	3
MATH 1023 College Algebra	3	HIST 2013 or 2023 U.S. History I or II	3
SPCH 1113 Introduction to Public Speaking	3	PHED 1501 Activity and Wellness	1
Social Science choice (ECON 2103 or FIN 2003, GEOG 2003, PSCI 2003, PSYC 2003, or SOC 1003 or 2003)	3	Basic Technical Core Elective**	4
Basic Technical Core Elective**	4	Basic Technical Core Elective**	3
<b>Total Semester Hours</b>	<b>18</b>	<b>Total Semester Hours</b>	<b>17</b>
Fall - Semester 3		Spring - Semester 4	
ENGL 2213 World Literature I or ENGL 2223 World Literature II or PHIL 2403 Introduction to Philosophy	3	ENGL 2213 World Literature I or ENGL 2223 World Literature II or PHIL 2403 Introduction to Philosophy	3
PHYS 2003/2001 General 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 or Foreign Language)	3	Humanities choice (ART 2013, HUM 2003 or MUS 2013)	3
HIST 1003 or 1013 World History I or II	3	Basic Technical Core Elective**	3
PHED 1 1 PE Activity	1		
<b>Total Semester Hours</b>	<b>17</b>	<b>Total Semester Hours</b>	<b>17</b>
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
<b>Total Semester Hours</b>	<b>16</b>	<b>Total Semester Hours</b>	<b>17</b>
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
<b>Total Semester Hours</b>	<b>14</b>	<b>Total Semester Hours</b>	<b>17</b>

Total hours required for Major – 132

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

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