

Major in Engineering-Physics (BS) – Industrial Technology Option
120 hours

University Requirement - 2 hours

GSTD 1002 Freshman Seminar

General Education - 25 hours (10 hours of mathematics, biological science, physical science, social science, and fine arts/humanities courses are included in the major.)

Basic Courses - 40 hours¹

To be approved by program director of industrial technology.

Industrial Technology - 35 hours

ITEC	2023	Introduction to Industrial Technology
ITEC	2032	Industrial Safety
ITEC	3003	Quality Control
ITEC	3012	Maintenance
ITEC	3023	Production and Inventory Control
ITEC	3043	Work Analysis
ITEC	3073	Economic Analysis for Technology
ITEC	3263	Operations Management I
ITEC	3363	Operations Management II
ITEC	3503	Computational Methods of Industrial Technology
ITEC	3803	Industrial Materials
ITEC	4044	Advanced Manufacturing Systems

Other core requirements - 18 hours

MATH	1033	Plane Trigonometry
MATH	2123	Applied Calculus for Technology
MATH	3043	Introduction to Applied Probability and Statistics

and

9 hours (work experience or junior-senior technical electives or applied projects)

¹Minor in Management (18 hours), minor in Marketing (18 hours), or minor in General Business (21 hours) is strongly recommended.

Engineering Physics - Industrial Technology Option (BS)

Suggested Plan of Study

2018-2019 Catalog

Fall – Semester 1		Spring - Semester 2	
ENGL 1113 Composition I	3	ENGL 1123 Composition II	3
MATH 1023 College Algebra	3	MATH 1033 Plane Trigonometry	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	*HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
ITEC 2023 Introduction to Industrial Technology	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	
Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003 or Foreign Language)	3	Fine Arts/Humanities (ART 2013, HUM 2003, ENGL 2213, ENGL 2223, MUS 2003 or MUS 2013, PHIL 2403, THEA 2003, or Foreign Language)	3
***Basic Course Elective	3	*Social Science choice (ECON 2103, FIN 2003, GEOG 2003 HIST 1003, HIST 1013, HIST 2013, HIST 2023, PSCI 2003, PSYC 2003, SOC 1003, or SOC 2003)	3
***Basic Course Elective	3	***Basic Course Elective	3
***Basic Course Elective	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	
***Basic Course Elective	3	**ITEC 3503 Computational Methods of Industrial Technology	3
ITEC 3003 Quality Control	3	ITEC 3263 Operations Management I	3
MATH 2123 Applied Calculus for Technology	3	MATH 3043 Introduction to Applied Probability and Statistics	3
***Basic Course 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 3023 Production and Inventory Control	3	ITEC 3073 Economic Analysis for Technology	3
ITEC 3803 Industrial Materials	3	ITEC 3363 Operations Management II	3
Work Experience or UL Technical Elective	3	***Basic Course Elective	3
ITEC 4044 Advanced Manufacturing Systems	4	Work Experience or UL Technical Elective	3
Total Semester Hours	16	Total Semester Hours	14

Total hours required for major – 120

*Note: Must have six hours of social science courses. 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, Information Systems, Computer Science, Economics, Engineering, Entomology, Finance, Forestry, General Business, Geology, Industrial Technology, Mathematics, Management, Marketing, Physics, Speech, Spanish, French, Russian.