

Major in Engineering Physics with Engineering Technology Option (BS)

120 hours

University Requirement - 2 hours

GSTD 1002 Freshman Seminar

General Education - 18 hours (17 hours of mathematics, biological science, physical science, social science, and fine arts/humanities courses are included in the major.)

Science and Mathematics Core – 20 hours

Chemistry – 4 hours

CHEM 1013/1011 College Chemistry I/Lab

or

CHEM 1023/1021 University Chemistry I/Lab

Mathematics – 6-8 hours

MATH 2123 Applied Calculus for Technology

or

MATH 1525 Calculus I

MATH 3043 Introduction to Applied Probability and Statistics

Physics – 8 hours

PHYS 2003/2001 College Physics I/Lab

PHYS 2103/2101 College Physics II/Lab

or

PHYS 2203/2201 University Physics I/Lab

PHYS 2213/2211 University Physics II/Lab

Technical Courses – 66 hours

AGED 2021/2022 Agricultural Metals/Lab

ENGL 3003 Advanced Professional Writing

ENGR 1023/1021 Introduction to Engineering/Lab

ENGR 1212 Engineering Graphics

ENGR 2023 Fundamentals of Manufacturing

ETEC 2003 Applied Statics

ETEC 2013 Electric Circuits and Machines

ETEC 2023 Programmable Logic Controllers

ETEC 2033 Solid Modeling and Design

ETEC 3002 Applied Mechanics Lab

ETEC 3003 Applied Fluid Mechanics

ETEC 3012 Applied Thermal Science Lab

ETEC 3013 Applied Thermal Science

ETEC 3023 Computer Aided Design and Analysis

ETEC 3033 Strength of Materials

ETEC 4003 Heating Ventilation & Air Conditioning

ETEC 4013 Senior Design for Technology

ETEC 4903 Internship for Technology

ITEC 2032 Industrial Safety

ITEC 3073 Economic Analysis for Technology

ITEC 3803 Industrial Materials

ITEC 4123 Computer Aided Manufacturing

Select 3 hours from the following:

ITEC 3503 Computational Methods of Industrial Technology

CSCI 2103 Computer Science I

Upper-level Technology/Engineering Electives –14-16 hours

Engineering Physics – Engineering 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
PHYS 2203/2201 University Physics I/Lab or PHYS 2003/2001 College Physics I/Lab	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
ENGR 1023-Introduction to Engineering	3	*HIST 2013 or 2023 U.S. History I or II or PSCI 2003 American Government: National	3
MATH 2123 Applied Calculus for Technology	3	PHYS 2203/2201 University Physics I/Lab or PHY 2103/2101 College Physics II/Lab	4
GSTD 1002 Freshman Seminar	2	1021 Introduction to Engineering Lab	1
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 3		Spring - Semester 4	
CHEM 1013/1011 College Chemistry I/Lab or CHEM 1023/1021 University Chemistry I/Lab	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
ENGR 1212 Engineering Graphics	2	ITEC 2032 Industrial Safety	2
ETEC 2003 Applied Statics	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
AGED 2021/2022 Agricultural Metals/Lab	3	ETEC 2033 Solid Modeling and Design	3
ETEC 2013 Electric Circuits and Machines	3	ETEC 2023 Programmable Logic Controller	3
Total Semester Hours	15	Total Semester Hours	14
Fall - Semester 5		Spring - Semester 6	
ITEC 3503 Computational Methods of Industrial Technology or CSCI 2103 Computer Science I	3	ITEC 3073 Economic Analysis for Technology	3
ITEC 3803 Industrial Materials	3	ENGR 2023 Fundamentals of Manufacturing	3
ETEC 3033 Strength of Materials	3	ETEC 3002 Applied Mechanics Lab	2
ETEC 3003 Applied Fluid Mechanics	3	ETEC 3013 Applied Thermal Science	3
MATH 3043 Introduction to Applied Probability and Statistics	3	ETEC 3023 Computer Aided Design and Analysis	3
Total Semester Hours	15	ETEC 3012 Applied Thermal Science Lab	2
Total Semester Hours	15	Total Semester Hours	16
Fall - Semester 7		Spring - Semester 8	
UL Technology/Engineering Elective	3	UL Technology/Engineering Elective	3
ETEC 4013 Senior Design For Technology	3	ETEC 4903 Internship for Technology	3
ITEC 4123 Computer Aided Manufacturing	3	ENGL 3003 Advanced Professional Writing	3
UL Technology/Engineering Elective	3	UL Technology/Engineering Elective	4
UL Technology/Engineering Elective	3	ETEC 4003 Heating Ventilation & Air Conditioning	3
Total Semester Hours	15	Total Semester Hours	16

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.