

LIBERTY

UNIVERSITY.

ONLINE

Bachelor of Science in Industrial Engineering Technology

2021-2022 Degree Completion Plan

Important: This degree plan is effective for those starting this degree program in fall 2021 through summer 2022. This degree plan will remain in effect for students who do not break enrollment or who do not change degree programs, concentrations or cognates.

GENERAL EDUCATION/

FOUNDATIONAL SKILLS REQUIREMENTS (41-44 hours)

Course		Hrs	Sem	Grade
Communication & Information Literacy (12 hours)¹				
ENGL 101	Composition & Rhetoric	3	_____	_____
_____	Communications Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____

Technological Solutions & Quantitative Reasoning (4-7 hours)¹

UNIV 104	Instructional Tech. for Online Learning	0-3	_____	_____
MATH _____	Math Elective (MATH 114 or higher)	4	_____	_____

Critical Thinking (7 hours)¹

RLGN 104	Christian Life & Biblical Worldview ²	4	_____	_____
_____	Critical Thinking Elective	3	_____	_____

Civic & Global Engagement (3 hours)¹

_____	Cultural Studies Elective	3	_____	_____
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Social & Scientific Inquiry (7 hours)¹

_____	Natural Science Elective	4	_____	_____
_____	Social Science Elective	3	_____	_____

Christianity & Contexts (8 hours)¹

BIBL 104	Survey of Old & New Testament	4	_____	_____
THEO 104	Introduction to Theology Survey ²	4	_____	_____

Course		Hrs	Sem	Grade
Major Foundational Courses (4-21 hours)				
CSIS 111	Introduction to Programming ³	3	_____	_____
ECON 110	Survey of Economics ³	3	_____	_____
ENGR 270	Technical Communication ³	3	_____	_____
MATH 131	Calculus & Analytical Geometry I ^{3,4}	4	_____	_____
MATH 132	Calculus & Analytical Geometry II ^{3,4}	4	_____	_____
PHYS 231	University Physics I ^{3,4}	4	_____	_____

MAJOR

Core (67 hours)				
ACCT 209	Survey of Accounting & Finance	3	_____	_____
BUSI 240	Organizational Behavior I	3	_____	_____
BUSI 310	Principles of Management	3	_____	_____
CHEM 115	Essentials of General Chemistry	4	_____	_____
ENGE 205	Electrical Systems	3	_____	_____
ENGI 220	Engineering Economy	3	_____	_____
ENGI 230	Production Systems	3	_____	_____
ENGI 307	Data Analysis & Machine Learning	3	_____	_____
ENGI 310	Operations & Research Logistics	3	_____	_____
ENGI 330	Facilities Design	3	_____	_____
ENGI 371	Six Sigma, Lean & Kaizen	3	_____	_____
ENGI 428	CNC & Program Logic Chips	3	_____	_____
ENGI 450	Human Factors & Ergonomics	3	_____	_____
ENGI 461	Engineering Technology Capstone I	3	_____	_____
ENGI 462	Engineering Technology Capstone II	3	_____	_____
ENGR 105	Introduction to Engineering I	2	_____	_____
ENGR 115	Introduction to Engineering II	2	_____	_____
ENGR 210	Probability & Statistics Methods for Eng.	3	_____	_____
ENGR 235	Statics	3	_____	_____
ENGR 370	Quality Assurance	3	_____	_____
ENGV 205	Computer Aided Design	1	_____	_____
ENGV 380	Project & Construction Management	3	_____	_____
MATH 128	Elementary Functions & Coordinate Geo.	4	_____	_____

FREE ELECTIVES (0-8 hours)

_____	_____	-	_____	_____
_____	_____	-	_____	_____

Notes

All applicable prerequisites must be met

¹Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

²Students transferring in 45 or more UG credit hours will have the requirement of RLGN 104 waived; Students transferring in 60 or more UG credit hours will also have the requirement of THEO 104 waived

³Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened

⁴Minimum grade of 'C' required

Suggested Course Sequence on second page

Graduation Requirements

120 Total Hours

2.0 Overall grade point average

30 Hours must be upper-level courses (300-400 level)

Grade of 'C' Minimum required for all courses in the major

25% Of major taken through Liberty University

30 Hours must be completed through Liberty University

Grad App Submission of Degree Completion Application must be completed within the last semester of a student's anticipated graduation date

SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR

First Semester		Second Semester	
ENGL 101	3	MATH 131	4
UNIV 104	0-3	RLGN 104	4
Social Sciences Elective ¹ [ECON 110]	3	Cultural Studies Elective ¹	3
ENGR 105	2	Information Literature Elect ¹ [CSIS 111]	3
ENGR 115	2	ENGV 205	<u>1</u>
MATH 128	<u>4</u>	Total	15
Total	14-17		

SOPHOMORE YEAR

Math Elective ¹ [MATH 132]	4	Natural Science Elective ¹ [PHYS 231]	4
ACCT 209	3	BUSI 310	3
CHEM 115	4	ENGE 205	3
ENGI 220	3	ENGR 210	3
ENGI 230	<u>3</u>	ENGR 235	<u>3</u>
Total	17	Total	16

JUNIOR YEAR

BIBL 104	4	Communications Elective ¹ [ENGR 270]	3
Information Literature Elective ¹	3	ENGI 371	3
BUSI 240	3	ENGV 380	3
ENGI 330	3	Elective	3
ENGR 370	<u>3</u>	Elective	<u>2</u>
Total	16	Total	14

SENIOR YEAR

Critical Thinking Elective ¹	3	THEO 104	4
ENGI 307	3	ENGI 450	3
ENGI 310	3	ENGI 461 ²	3
ENGI 428	<u>3</u>	ENGI 462 ²	3
Total	12	Elective	<u>3</u>
		Total	16

Notes

¹Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

²ENGI 461 is a prerequisite for ENGI 462. ENGI 461 should be taken in the B Term of the final semester, while ENGI 462 should be taken in the D Term of the final semester.