

# LIBERTY

UNIVERSITY.

## ONLINE

### Bachelor of Science in Industrial Engineering Technology

2022-2023 Degree Completion Plan

**Important:** This degree plan is effective for those starting this degree program in fall 2022 through summer 2023. 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
<b>Communication &amp; Information Literacy (12 hours)<sup>1</sup></b>			
ENGL 101	Composition & Rhetoric	3	_____
_____	Communications Elective	3	_____
_____	Information Literacy Elective	3	_____
_____	Information Literacy Elective	3	_____

#### Technological Solutions & Quantitative Reasoning (4-7 hours)<sup>1</sup>

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

#### Critical Thinking (7 hours)<sup>1</sup>

RLGN 104	Christian Life & Biblical Worldview <sup>2</sup>	4	_____
_____	Critical Thinking Elective	3	_____

#### Civic & Global Engagement (3 hours)<sup>1</sup>

_____	Cultural Studies Elective	3	_____
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#### Social & Scientific Inquiry (7 hours)<sup>1</sup>

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

#### Christianity & Contexts (8 hours)<sup>1</sup>

BIBL 104	Survey of Old & New Testament	4	_____
THEO 104	Introduction to Theology Survey <sup>2</sup>	4	_____

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

#### MAJOR

Course	Hrs	Sem	Grade
<b>Core (67 hours)</b>			
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)

_____	_____	_____	_____
_____	_____	_____	_____

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

Notes
All applicable prerequisites must be met
<sup>1</sup> Refer to the list of approved general education electives at <a href="http://www.liberty.edu/gened">www.liberty.edu/gened</a> before enrolling in foundational skills requirements
<sup>2</sup> Students 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
<sup>3</sup> Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at <a href="http://www.liberty.edu/gened">www.liberty.edu/gened</a>
<sup>4</sup> Minimum grade of 'C' required
<i>Suggested Course Sequence on second page</i>

## SUGGESTED COURSE SEQUENCE

### FRESHMAN YEAR

<u>First Semester</u>		<u>Second Semester</u>	
ENGL 101	3	MATH 131	4
UNIV 104	0-3	RLGN 104	4
Social Sciences Elective <sup>1</sup> [ECON 110]	3	Cultural Studies Elective <sup>1</sup>	3
ENGR 105	2	Information Literature Elect <sup>1</sup> [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 <sup>1</sup> [MATH 132]	4	Natural Science Elective <sup>1</sup> [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 <sup>1</sup> [ENGR 270]	3
Information Literature Elective <sup>1</sup>	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 <sup>1</sup>	3	THEO 104	4
ENGI 307	3	ENGI 450	3
ENGI 310	3	ENGI 461 <sup>2</sup>	3
ENGI 428	<u>3</u>	ENGI 462 <sup>2</sup>	3
Total	12	Elective	<u>3</u>
		Total	16

#### Notes

<sup>1</sup>Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling in foundational skills requirements

<sup>2</sup>ENGI 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.