

# **Bachelor of Science in Industrial Engineering Technology**

2023-2024 Degree Completion Plan

# ONLINE

**Important:** This degree plan is effective for those starting this degree program in fall 2023 through summer 2024. 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/**

Course		Hrs	<u>Sem</u>	<u>Grade</u>	Course		<u>Hrs</u>	<u>Sem</u>	Grac
Communication & Information Literacy (12 hours) <sup>1</sup>				Major Foundational Courses (4-21 hours)					
ENGL 101	Composition & Rhetoric	3			CSIS 111	Introduction to Programming <sup>3</sup>	3		
	Communications Elective	3			ECON 110	Survey of Economics <sup>3</sup>	3		
	Information Literacy Elective	3			ENGR 270	Technical Communication <sup>3</sup>	3		
	Information Literacy Elective	3			MATH 131	Calculus & Analytical Geometry I3,4	4		
					MATH 132	Calculus & Analytical Geometry II <sup>3,4</sup>	4		
Technologica	al Solutions & Quantitative Reasonir	ng (4-	7 hours	$s)^{1}$	PHYS 231	University Physics I <sup>3,4</sup>	4		
UNIV 104	Instructional Tech. for Online Learning	0-3		<u> </u>					
MATH	Math Elective (MATH 114 or higher)	4			<b>MAJOR</b>				
						Core (67 hours)			
Critical Thinking (7 hours) <sup>1</sup>			ACCT 209	Survey of Accounting & Finance	3				
RLGN 104	Christian Life & Biblical Worldview <sup>2</sup>	4			BUSI 240	Organizational Behavior & Management	3		
	Critical Thinking Elective	3			BUSI 310	Principles of Management	3		
					CHEM 115	Essentials of General Chemistry	4		
Civic & Glol	bal Engagement (3 hours) <sup>1</sup>				ENGE 205	Electrical Systems	3		
	Cultural Studies Elective	3			ENGI 220	Engineering Economy	3		
					ENGI 230	Production Systems	3		
Social & Scientific Inquiry (7 hours) <sup>1</sup>				ENGI 307	Data Analysis & Machine Learning	3			
	Natural Science Elective	4			ENGI 310	Operations & Research Logistics	3		
	Social Science Elective	3			ENGI 330	Facilities Design	3		
					ENGI 371	Six Sigma, Lean & Kaizen	3		
Christianity & Contexts (8 hours) <sup>1</sup>					ENGI 428	CNC & Program Logic Chips	3		
BIBL 104	Survey of Old & New Testament	4			ENGI 450	Human Factors & Ergonomics	3		
THEO 104	Introduction to Theology Survey <sup>2</sup>	4			ENGI 461	Engineering Technology Capstone I	3		
					ENGI 462	Engineering Technology Capstone II	3		
					ENGR 105	Introduction to Engineering I	3		
					ENGR 115	Introduction to Engineering II			
					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 ELEC				

### **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="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

Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at <a href="https://www.liberty.edu/gened">www.liberty.edu/gened</a>

<sup>4</sup>Minimum grade of 'C' required

Suggested Course Sequence on second page

Revised: 11.03.2023 Effective: Catalog Term 2023-40

## SUGGESTED COURSE SEQUENCE

### FRESHMAN YEAR

First Semester	_	Second Semester			
ENGL 101	3	MATH 131			
UNIV 104	0-3	RLGN 104			
Social Sciences Elective <sup>1</sup> [ECON 110]	3	Cultural Studies Elective <sup>1</sup>			
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	1 14-17				
SO	РНОМОВ	RE 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	3		
Total	17	Total	16		
•	JUNIOR Y	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 Y	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	1 12	Elective	<u>3</u>		
		Total	16		

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 $<sup>\</sup>frac{\textbf{Notes}}{^{1}} \\ \text{Refer to the list of approved general education electives at } \\ \underline{\text{www.liberty.edu/gened}} \\ \text{ before enrolling in foundational skills requirements} \\ \frac{^{2}}{^{2}} \\ \text{ENGI 461 is a prerequisite for ENGI 462}.$