

# ENGINEERING TECHNOLOGY (B.S.) - RESIDENT

**Important:** This degree plan is effective for those starting this degree program in fall 2026 through summer 2027. 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

Code	Title	Hours
<b>Communication &amp; Information Literacy</b> <sup>1</sup>		
ENGL 101	Composition and Rhetoric	3
	Communications Elective	3
	Information Literacy Elective	3
	Information Literacy Elective	3
<b>Technological Solutions &amp; Quantitative Reasoning</b> <sup>1</sup>		
UNIV 101	Foundational Skills	1
	Math Elective MATH 114 or higher	3
	Technology Competency <sup>2</sup>	0-3
<b>Critical Thinking</b> <sup>1</sup>		
RLGN 105	Introduction to Biblical Worldview <sup>3</sup>	2
	Critical Thinking Elective	3
<b>Civic &amp; Global Engagement</b> <sup>1</sup>		
EVAN 101	Evangelism and the Christian Life <sup>3</sup>	2
	Cultural Studies Elective	3
<b>Social &amp; Scientific Inquiry</b> <sup>1</sup>		
	Natural Science Elective	4
	Social Science Elective	3
<b>Christianity &amp; Contexts</b> <sup>1</sup>		
BIBL 105	Old Testament Survey	2
BIBL 110	New Testament Survey	2
THEO 201	Theology Survey I <sup>3</sup>	2
THEO 202	Theology Survey II <sup>3</sup>	2
<b>Total Hours</b>		<b>41-44</b>

<sup>1</sup> Refer to the list of approved general education electives before enrolling in foundational skill requirements

<sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course

<sup>3</sup> Students transferring in 45 or more UG credit hours will have the requirements of RLGN 105 & EVAN 101 waived; Students transferring in 60 or more UG credit hours will also have the requirements of THEO 201 & THEO 202 waived

## Major Requirements

Code	Title	Hours
<b>Major Foundational Courses</b>		
CSCN 111	Programming In C++ Beginner <sup>1,2</sup>	3
ENGR 270	Technical Communication <sup>1,2</sup>	3
ENGT 130	Technical Calculus <sup>2</sup>	4
ETHC 101	Introduction to Ethics <sup>1,2</sup>	3

Code	Title	Hours
PHYS 201	General Physics I <sup>1,2</sup>	4
PHYS 201L	General Physics Lab I	0
<b>Total Hours</b>		<b>17</b>

<sup>1</sup> Course may fulfill select general education requirements.

<sup>2</sup> Minimum grade of 'C' required.

Code	Title	Hours
<b>Major Courses</b>		
CHEM 121	General Chemistry I <sup>1</sup>	4
ENGI 220	Engineering Economy <sup>1</sup>	3
ENGI 230	Production Systems <sup>1</sup>	3
ENGI 383	Project Management and Systems Engineering <sup>1</sup>	3
ENGR 110	Introduction to Engineering Fundamentals <sup>1</sup>	3
ENGR 370	Quality Assurance <sup>1</sup>	3
ENGR 481	Engineering Design I <sup>1</sup>	3
ENGR 482	Engineering Design II <sup>1</sup>	3
ENGT 206	Electrical Systems <sup>1</sup>	4
ENGT 207	Analog and Digital Electronics <sup>1</sup>	4
ENGT 225	Engineering Mechanics <sup>1</sup>	4
ENGT 226	Measurement Tools and Instrumentation <sup>1</sup>	4
ENGT 250	Computer-Aided Engineering <sup>1</sup>	3
ENGT 301	Introduction to Programming for Embedded Systems <sup>1</sup>	4
ENGT 305	Engineering Materials <sup>1</sup>	3
ENGT 316	Industrial Automation and Control <sup>1</sup>	4
ENGT 374	Thermal-Fluid Systems <sup>1</sup>	4
ENGT 428	PLC Fundamentals <sup>1</sup>	4
<b>Technical Electives</b>		
	Technical Elective <sup>1,2,3</sup>	3
	Technical Elective <sup>1,2,3</sup>	3
	Technical Elective <sup>1,2,3</sup>	3
	Technical Elective <sup>1,2,3</sup>	3
<b>Quantitative Studies</b>		
MATH 201	Introduction to Probability and Statistics <sup>1</sup>	3
<b>Total Hours</b>		<b>78</b>

<sup>1</sup> Minimum grade of 'C' is required.

<sup>2</sup> Choose 3 credits from the following: AVIA 230, AVIA 250, AVIA 308, CSCN 112, ENGR 444, ENGR 495, ENGR 497, or ENGR 499.

<sup>3</sup> ENGR 495 & ENGR 499 are strongly recommended.

*All applicable prerequisites must be met*

## Graduation Requirements

- 123 Total hours
- 2.0 Overall grade point average
- 30.75 Hours must be upper-level courses (300-400 level)
- **Grade of 'C'** Minimum required for all courses in the major, quantitative studies, and technical electives
- **25%** Of major, including technical electives and quantitative studies, taken through Liberty University
- **30.75 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
- **CSER** All requirements must be satisfied before a degree will be awarded

## Course Sequence

### Freshman Year

First Semester		Hours
ENGL 101	Composition and Rhetoric	3
ENGR 110	Introduction to Engineering Fundamentals	3
RLGN 105	Introduction to Biblical Worldview	2
UNIV 101	Foundational Skills	1
Math Elective <sup>3</sup>		3
Technology Competency <sup>2</sup>		0-3
CSER		
<b>Hours</b>		<b>12-15</b>

### Second Semester

BIBL 105	Old Testament Survey	2
CHEM 121	General Chemistry I <sup>1</sup>	4
ENGT 130	Technical Calculus	4
Communications Elective <sup>1,3</sup>		3
Natural Science Elective <sup>1,3</sup>		4
CSER		
<b>Hours</b>		<b>17</b>

### Sophomore Year

#### First Semester

ENGI 220	Engineering Economy <sup>1</sup>	3
ENGT 206	Electrical Systems <sup>1</sup>	4
ENGT 225	Engineering Mechanics	4
THEO 201	Theology Survey I	2
Critical Thinking Elective <sup>1,3</sup>		3
CSER		
<b>Hours</b>		<b>16</b>

#### Second Semester

BIBL 110	New Testament Survey	2
ENGT 207	Analog and Digital Electronics <sup>1</sup>	4
ENGT 226	Measurement Tools and Instrumentation <sup>1</sup>	4
ENGT 250	Computer-Aided Engineering <sup>1</sup>	3
MATH 201	Introduction to Probability and Statistics <sup>1</sup>	3
THEO 202	Theology Survey II	2
CSER		
<b>Hours</b>		<b>18</b>

### Junior Year

#### First Semester

ENGT 305	Engineering Materials <sup>1</sup>	3
ENGT 316	Industrial Automation and Control <sup>1</sup>	4
Information Literacy Elective I <sup>1,3</sup>		3
Technical Elective <sup>1,4</sup>		3
Technical Elective <sup>1,4</sup>		3
CSER		
<b>Hours</b>		<b>16</b>

### Second Semester

ENGI 230	Production Systems <sup>1</sup>	3
ENGI 383	Project Management and Systems Engineering <sup>1</sup>	3
ENGT 301	Introduction to Programming for Embedded Systems <sup>1</sup>	4
ENGT 374	Thermal-Fluid Systems <sup>1</sup>	4
CSER		
<b>Hours</b>		<b>14</b>

### Senior Year

#### First Semester

ENGR 481	Engineering Design I <sup>1</sup>	3
ENGT 428	PLC Fundamentals <sup>1</sup>	4
EVAN 101	Evangelism and the Christian Life	2
Cultural Studies Elective <sup>3</sup>		3
Technical Elective <sup>1,4,5</sup>		3
CSER		
<b>Hours</b>		<b>15</b>

#### Second Semester

ENGR 370	Quality Assurance <sup>1</sup>	3
ENGR 482	Engineering Design II <sup>1</sup>	3
Information Literacy Elective II <sup>3</sup>		3
Social Science Elective <sup>3</sup>		3
Technical Elective <sup>1,4,5</sup>		3
CSER		
<b>Hours</b>		<b>15</b>

#### Total Hours

**123-126**

<sup>1</sup> Minimum Grade of "C" is required

<sup>2</sup> All students must pass the Computer Assessment OR complete applicable INFT course; refer to <https://www.liberty.edu/computerassessment> for more information.

<sup>3</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>4</sup> Choose 3 credits from AVIA 230, AVIA 250, AVIA 308, CSCN 112, ENGR 444, ENGR 495, ENGR 497, or ENGR 499.

<sup>5</sup> ENGR 495 & ENGR 499 are strongly recommended.

*All applicable prerequisites must be met*