

# **Bachelor of Education in Engineering Education 6-12**

2023-2024 Degree Completion Plan

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. After completion of the required program coursework (including student teaching) and the passing of licensure tests, the graduate of this program would be eligible for a VA state teaching license.

## GENERAL EDUCATION/

FOUNDATIONAL SKILLS REQUIREMENTS (44-47 hours)												
Course		Hrs	Sem	Grade	Course		Hrs	Sem	Grade			
Communication & Information Literacy (13 hours) <sup>1</sup>					MAJOR	Core (80 hours)						
ENGL 101	Composition & Rhetoric	3			Education Cor	urses						
ENGR 270	Technical Communication	3			EDUC 201	Intro. to Education & Classroom Tech.	3					
HIUS 221	Survey of American History I	3			EDUC 221	Content Area Read & Diff Teach & Learn	3					
INQR 101	Inquiry 101	1			EDUC 235	Content Instructional Design	3					
	Information Literacy Elective	3			EDUC 350	Behavior & Individual Differences	3					
	·				EDUC 360	Foundations of Education	3					
Technological Solutions & Quantitative Reasoning (4-7 hours) <sup>1</sup>				EDUC 425	Content Measurement & Evaluation	3						
UNIV 101	Foundational Skills	1			EDUC 435	Content Curriculum Fundamentals	3					
MATH	MATH Elective	3			MATH 419	Teaching Math in Secondary Schools	3					
	Technology Competency <sup>2</sup>	0-3			Practicum and	d Gate Courses						
					EDGT 177	School of Ed Gate 1 - UG Init. Lic Local	0					
Critical Thir	king (8 hours)				EDGT 277	School of Ed Gate 2 - UG Init. Lic Local	0					
ENGL 201	American Literature I	3			EDGT 377	School of Ed Gate 3 - UG Init. Lic Local	0					
RLGN 105	Intr Bwvw/Contemp Moral Issues <sup>3</sup>	2			EDUC 189	Practicum in Education I: Local <sup>5</sup>	0					
RSCH 201	Research 201	3			EDUC 289	Practicum in Education II: Local <sup>5</sup>	0					
					EDUC 389	Practicum in Education III: Local <sup>5</sup>	0					
Civic & Global Engagement (5 hours)					Secondary Courses							
CSTU 101	Western Culture	3			ENGE 211	Intro to Electrical & Electronic Circuits	4					
EVAN 101	Evangelism & Christian Life <sup>3</sup>	2			ENGI 220	Engineering Economy	3					
					ENGM 310	Materials Engineering	3					
Social & Scientific Inquiry (6 hours) <sup>1</sup>				ENGR 102	Introduction to Engineering	1						
PSYC 210	Developmental Psychology	3			ENGR 110	Introduction to Engineering Fundamentals	3					
	Natural Science Elective	3			ENGR 125	Visualization for Engineers	1					
					ENGR 133	Calculus with MATLAB	1					
Christianity	& Contexts (8 hours)				ENGR 210	Probability & Statistical Analysis for Eng	3					
BIBL 105	Old Testament Survey	2			ENGR 235	Statics	3					
BIBL 110	New Testament Survey	2			ENGR 240	Dynamics	3					
THEO 201	Theology Survey I <sup>3</sup>	2			ENGR 315	Fluid Dynamics	3					
THEO 202	Theology Survey II <sup>3</sup>	2			ENGR 381	Engineering Design Introduction	3					
					MATH 221	Applied Linear Algebra	3					
Major Foundational Courses (12-23 hours)			MATH 231	Calculus & Analytical Geometry III	4							
CHEM 121	General Chemistry I <sup>4</sup>	4			MATH 334	Differential Equations	3					
ENGL 102	Composition & Literature <sup>4</sup>	3			PHYS 320	Thermodynamics	3					
MATH 131	Calculus & Analytic Geometry I <sup>4</sup>	4			Student Teach							
MATH 132	Calculus & Analytic Geometry II <sup>4</sup>	4			EDST 475	The Reflective Educator: Resource Sem.	3					
PHYS 231	University Physics I <sup>4</sup>	4				5,6	9					
PHYS 232	University Physics II <sup>4</sup>	4										

### **Graduation Requirements**

136 Total Hours

3.0 Overall grade point average

**34** Hours must be upper-level courses (300-400 level)

Grade of 'C' Minimum required for all upper-level courses in the major and all EDUC and EDSP courses

25% Of major taken through Liberty University

34 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

### Notes

All applicable prerequisites must be met

All practicum courses should be completed before student teaching, and candidates should not plan to take practicum courses in summer terms.

<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>All students must pass the Computer Assessment OR complete applicable INFT course refer to <a href="https://www.liberty.edu/computerassessment">www.liberty.edu/computerassessment</a> for more information

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

<sup>4</sup>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>5</sup>Liberty University School of Education Background check is required for all practicums and student teaching

<sup>6</sup>Choose one of the following Student Teaching options: EDST 460, 461, 464, 465, 466, or 467

Suggested Course Sequence on second page

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		COURSE SEQUENCE			
	FRESHMAN YEAR				
First Semester		Second Semester			
ENGL 101	3	ENGR 270		- 3	
MATH 131	4	INQR 101		1	
UNIV 101	1	MATH Elective [MATH 132] <sup>1</sup>		_	
EDGT 177	0	Natural Science Elective [PHYS 2	22111	_	
		Technology Competency <sup>2</sup>	231]		
EDUC 201	3			0	
ENGR 102	1	EDGT 277			
ENGR 110	3	EDUC 221			
ENGR 133	1	CSER			
CSER	<u>0</u>		Total	15	
Tot	al 16				
	SOPHO	MORE YEAR			
MATH 231	4	RSCH 201			
PHYS 232	4	ENGR 125			
EDUC 189 <sup>3</sup>	0	ENGR 210			
EDUC 235	3	MATH 221			
ENGE 211	4	MATH 334			
ENGI 220	3	PHYS 320			
CSER	<u>0</u>	CSER			
Tot	al 18		Total		
DVD- 40-		CR SEMESTER			
BIBL 105	2				
ENGL 201	3				
EVAN 101	2				
RLGN 105	2				
Info Literacy Elective [ENGL 102] <sup>1</sup>	<u>3</u>				
Tot					
	JUN	IOR YEAR			
BIBL 110	2	CSTU 101			
CHEM 121	4	EDUC 360			
PSYC 210	3	EDUC 425			
THEO 201	2	ENGM 310			
EDUC 289 <sup>3</sup>	0	ENGR 240			
EDUC 350	3	ENGR 381			
ENGR 235	3	CSER			
		CSER	T 1		
CSER Tot	<u>0</u> al 17		Total		
	SEN	IOR YEAR			
LILLIE 221	2	EDOT 475			
HIUS 221	3	EDST 475			
THEO 202	2	Student Teaching Option <sup>3,4</sup>			
EDGT 377	0	CSER			
EDUC 389 <sup>3</sup>	0		Total		
EDUC 435	3				
ENGR 315	3				
MATH 419	3				
CSER	0				
CSER Tot	<u>0</u> al 14				

All applicable prerequisites must be met

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<sup>&</sup>lt;sup>1</sup>All students must pass the Computer Assessment OR complete applicable INFT course; refer to <a href="www.liberty.edu/computerassessment">www.liberty.edu/computerassessment</a> for more information

<sup>&</sup>lt;sup>3</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>3</sup>Liberty University School of Education Background check is required for all practicums and student teaching <sup>4</sup>Choose one of the following Student Teaching options: EDST 460, 461, 464, 465, 466, or 467