

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

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. 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/

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FOUNDATIONAL SKILLS REQUIREMENTS (44-47 hours)  Course Hrs Sem Grade Course Hrs Sem Grade							
	ion & Information Literacy (13 hou	MAJOR	Core (80 hours)	1113	Sem	Grade	
ENGL 101	Composition & Rhetoric		Education Courses				
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		
1101	Information Literacy Elective	3 — —	EDUC 259	Behavior & Individual Differences	3		
	information Efferacy Effective	J	EDUC 360	Foundations of Education	3		
m 1 - 1 - 1 - 1 - 1 - 1 - 1 - 2 - 2 - 2 -			EDUC 425	Content Measurement & Evaluation	3		
Technological Solutions & Quantitative Reasoning (4-7 hours) <sup>1</sup> UNIV 101 Foundational Skills 1			EDUC 425 EDUC 435	Content Curriculum Fundamentals	2		
MATH	MATH Elective	3	MATH 419		2		
МАТП		0-3		Teaching Math in Secondary Schools  I Gate Courses	3		
	Technology Competency <sup>2</sup>	0-3			0		
G 141 1 1 1 1 1 1 1 1 1	(01		EDGT 177 EDGT 277	School of Ed Gate 1 - UG Init. Lic Local School of Ed Gate 2 - UG Init. Lic Local			
	king (8 hours)	2					
ENGL 201	American Literature I	3	EDGT 377	School of Ed Gate 3 - UG Init. Lic Local			
RLGN 105	Intr Bwww/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 Con				
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 & Literature⁴	3	PHYS 320	Thermodynamics	3		
MATH 131	Calculus & Analytic Geometry I <sup>4</sup>	4	Student Teachi	ing			<u></u>
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	EDST 480	Student Teaching: Distance <sup>5</sup>			·
PHYS 232	University Physics II <sup>4</sup>	4	<u>or</u> EDST 481	Student Teaching: Local <sup>5</sup>	9		

## **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

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.

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="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

<sup>5</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

Suggested Course Sequence on second page

#### SUGGESTED COURSE SEQUENCE FRESHMAN YEAR First Semester Second Semester ENGL 101 3 ENGR 270 3 **INQR 101 MATH 131** 4 1 MATH Elective [MATH 132]<sup>1</sup> **UNIV** 101 4 1 Natural Science Elective [PHYS 231]<sup>1</sup> EDGT 177 0 4 EDUC 201 Technology Competency<sup>2</sup> 0-3 **EDGT 277** ENGR 102 0 EDUC 221 **ENGR 110** 3 3 **CSER ENGR 133** 1 0 Total 15-18 **CSER** 0 Total 16 SOPHOMORE YEAR MATH 231 RSCH 201 3 PHYS 232 **ENGR 125** 4 1 EDUC 1893 ENGR 210 3 0 EDUC 235 3 **MATH 221** 3 **ENGE 211** 4 **MATH 334** 3 ENGI 220 3 3 PHYS 320 **CSER** 0 0 **CSER** Total 18 Total 16 SUMMER SEMESTER BIBL 105 ENGL 201 3 EVAN 101 2 RLGN 105 2 Info Literacy Elective [ENGL 102]<sup>1</sup> 3 Total JUNIOR YEAR **BIBL** 110 2 **CSTU 101** 3 **CHEM 121** 4 EDUC 360 3 PSYC210 3 EDUC 425 3 **THEO 201** 2 **ENGM 310** 3 EDUC 289<sup>3</sup> 0 3 ENGR 240 EDUC 350 3 3 **ENGR 381** ENGR 235 3 **CSER** 0 **CSER** Total 18 0 Total SENIOR YEAR 3 EDST 475 **HIUS 221** 3 **THEO 202** 2 EDST 480 or 481<sup>3</sup> 9 EDGT 377 0 **CSER** 0 0 Total 12 EDUC 389<sup>3</sup> EDUC435 3 ENGR 315 3 3 **MATH 419 CSER** 0 Total 14

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All applicable prerequisites must be met

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>

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<sup>&</sup>lt;sup>3</sup>Liberty University School of Education Background check is required for all practicums and student teaching