

Important: This degree plan is effective for those starting this degree program in fall 2024 through summer 2025. 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 (42-45 hours)

Course		Hrs	Sem	Grade
Communication & Information Literacy (12 hours)¹				
ENGL 101	Composition & Rhetoric	3	_____	_____
_____	Communications Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____
_____	Information Literacy Elective	3	_____	_____

Technological Solutions & Quantitative Reasoning (5-8 hours)¹

UNIV 101	Foundational Skills	1	_____	_____
MATH _____	Math Elective (MATH 114 or higher)	4	_____	_____
_____	Technology Competency ²	0-3	_____	_____

Critical Thinking (5 hours)¹

RLGN 105	Intr Bwvw/Contemp Moral Issues ³	2	_____	_____
_____	Critical Thinking Elective	3	_____	_____

Civic & Global Engagement (5 hours)¹

EVAN 101	Evangelism & Christian Life ³	2	_____	_____
_____	Cultural Studies Elective	3	_____	_____

Social & Scientific Inquiry (7 hours)¹

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

Christianity & Contexts (8 hours)¹

BIBL 105	Old Testament Survey	2	_____	_____
BIBL 110	New Testament Survey	2	_____	_____
THEO 201	Theology Survey I ³	2	_____	_____
THEO 202	Theology Survey II ³	2	_____	_____

Major Foundational Courses (4-18 hours)

Course		Hrs	Sem	Grade
CSCN 111	Introduction to Programming ^{4,5}	3	_____	_____
ENGR 270	Technical Communication ^{4,5}	3	_____	_____
MATH 131	Calculus & Analytical Geometry I ^{4,5}	4	_____	_____
MATH 132	Calculus & Analytical Geometry II ^{4,5}	4	_____	_____
PHYS 231	University Physics I ^{4,5,6}	4	_____	_____

MAJOR

Core (52 hours)

ENGC 361	Computer Architecture	3	_____	_____
ENGE 201	Introduction to Logic Design ⁵	3	_____	_____
ENGE 211	Intro. to Electrical & Electronic Circuits ⁵	4	_____	_____
ENGE 212	AC Circuit Analysis ⁵	4	_____	_____
ENGE 311	Signals & Systems	3	_____	_____
ENGE 312	Digital Signal Processing	3	_____	_____
ENGE 321	Electronics	4	_____	_____
ENGE 331	Electromagnetic Fields	4	_____	_____
ENGE 341	Communication Systems	3	_____	_____
ENGE 411	Control Systems	3	_____	_____
ENGE 421	Advanced Electronics	3	_____	_____
ENGI 220	Engineering Economy ⁵	3	_____	_____
ENGR 110	Intro. to Engineering Fundamentals ⁵	3	_____	_____
ENGR 481	Engineering Design I	3	_____	_____
ENGR 482	Engineering Design II	3	_____	_____
_____	Electrical Engineering Elective ⁷	3	_____	_____

Technical Electives (6 hours)^{5,8,9}

_____	_____	-	_____	_____
_____	_____	-	_____	_____

Quantitative Studies (20 hours)

ENGR 210	Prob. & Statistical Analysis for Engr. ⁵	3	_____	_____
MATH 221	Applied Linear Algebra ⁵	3	_____	_____
MATH 231	Calculus & Applied Geometry III ⁵	4	_____	_____
MATH 250	Introduction to Discrete Mathematics ⁵	3	_____	_____
MATH 334	Differential Equations ⁵	3	_____	_____
PHYS 232	University Physics II ^{5,6}	4	_____	_____

Notes

All applicable prerequisites must be met

¹Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

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

³Students 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

⁴Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at www.liberty.edu/gened

⁵Minimum grade of "C" is required

⁶Lab Science courses require labs

⁷Choose from: ENGC 465, ENGE 351, 431, or 496

⁸Select from the list of Approved [Engineering Technical Elective Courses](#)

⁹ENGR 495 (Directed Research) is strongly recommended

Suggested Course Sequence on second page

Graduation Requirements

124 Total Hours

2.0 Overall grade point average

31 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, including technical electives and quantitative studies, taken through Liberty University

31 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

SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR

First Semester		Second Semester	
BIBL 105	2	BIBL 110	2
ENGL 101	3	Communications Elective ³ [ENGR 270 ¹]	3
MATH 131 ¹	4	Mathematics Elective ³ [MATH 132 ¹]	4
RLGN 105	2	Natural Science Elective ³ [PHYS 231 ¹]	4
UNIV 101	1	ENGI 220 ¹	3
Technology Competency ²	0-3	CSER	<u>0</u>
ENGR 110 ¹	3		Total 16
CSER	<u>0</u>		
Total	15-18		

SOPHOMORE YEAR

Information Literacy Elect. ³ [CSCN 111 ¹]	3	ENGE 201 ¹	3
ENGE 211 ¹	4	ENGE 212 ¹	4
MATH 231 ¹	4	MATH 221 ¹	3
MATH 250 ¹	3	MATH 334 ¹	3
CSER	<u>0</u>	PHYS 232 ¹	4
Total	14	CSER	<u>0</u>
		Total	17

JUNIOR YEAR

THEO 201	2	THEO 202	2
ENGE 311	3	ENGE 312	3
ENGE 321	4	ENGE 341	3
ENGE 331	4	ENGE 421	3
ENGR 210 ¹	3	Technical Elective ^{1,4}	3
CSER	<u>0</u>	CSER	<u>0</u>
Total	16	Total	14

SENIOR YEAR

EVAN 101	2	Cultural Studies Elective ³	3
Critical Thinking Elective ³	3	Information Literacy Elective ³	3
ENG 361	3	Social Science Elective ³	3
ENGE 411	3	ENGR 482	3
ENGR 481	3	Technical Elective ^{1,4,6}	3
Electrical Engineering Elective ⁵	3	CSER	<u>0</u>
CSER	<u>0</u>	Total	15
Total	17		

Notes

¹Minimum grade of "C" is required

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⁶ENGR 495 (Directed Research) is strongly recommended