

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	_____	_____

Course		Hrs	Sem	Grade
Major Foundational Courses (4-18 hours)				
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 (51-54 hours)				
_____	Computer Engineering Elective ^{5,7}	3-6	_____	_____
ENGC 301	Introduction to Embedded Systems	3	_____	_____
ENGC 361	Computer Architecture	3	_____	_____
ENGC 371	Embedded & Real-Time System Design	3	_____	_____
ENGC 401	Advanced Embedded Systems Design	3	_____	_____
ENGC 465	Introduction to Computer Networks	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 321	Electronics	4	_____	_____
ENGE 341	Communication Systems	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	_____	_____

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

_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Quantitative Studies Courses (20 hours)

ENGR 210	Prob. & Statistical Methods for Engr. ⁵	3	_____	_____
MATH 221	Applied Linear Algebra ⁵	3	_____	_____
MATH 231	Calculus & Analytical 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 Sciences courses require lab

⁷Choose one of the following options: CSCN 112 and CSCN 215; or ENGC 227¹⁰

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

⁹ENGR 495 (Directed Research) is strongly recommended

¹⁰ENGC 227 will not satisfy the Computer Science Minor if chosen.

Suggested Course Sequence on second page

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 upper-level courses in the major

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

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	0
ENGR 110 ¹	3		Total 16
CSER	0		
Total	15-18		

SOPHOMORE YEAR

Information Literacy Elect. ³ [CSCN 111 ¹]	3	CSCN 112 ¹ or ENGC 227 ^{1,4}	3
ENGE 211 ¹	4	ENGE 201 ¹	3
MATH 231 ¹	4	ENGE 212 ¹	4
MATH 250 ¹	3	MATH 221 ¹	3
CSER	0	PHYS 232 ¹	4
Total	14	CSER	0
		Total	17

JUNIOR YEAR

ENGC 301	3	EVAN 101	2
ENGE 311	3	Information Literacy Elective ³	3
ENGE 321	4	CSCN 215 (if applicable)	0-3
ENGR 210 ¹	3	ENGC 371	3
MATH 334 ¹	3	ENGE 341	3
CSER	0	Technical Elective ^{1,5}	3
Total	16	CSER	0
		Total	14-17

SENIOR YEAR

THEO 201	2	THEO 202	2
Critical Thinking Elective ³	3	Cultural Studies Elective ³	3
ENGC 361	3	Social Science Elective ³	3
ENGC 465	3	ENGC 401	3
ENGR 481	3	ENGR 482	3
Technical Elective ^{1,5,6}	3	CSER	0
CSER	0	Total	14
Total	17		

Notes

¹Minimum grade of "C" is required

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

³Refer to the list of approved general education electives at www.liberty.edu/gened before enrolling in foundational skills requirements

⁴ENGC 227 will not satisfy the Computer Science Minor if chosen.

⁵Select from the list of Approved [Engineering Technical Elective Courses](#)

⁶ENGR 495 (Directed Research) is strongly recommended