

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.

GENERAL EDUCATION/

FOUNDATIONAL SKILLS REQUIREMENTS (46-49 hours)

Course	Hrs	Sem	Grade
Communication & Information Literacy (13 hours)¹			
ENGL 101	Composition & Rhetoric	3	_____
INQR 101	Inquiry 101	1	_____
_____	Communications Elective	3	_____
_____	Information Literacy Elective	3	_____
_____	Information Literacy Elective	3	_____

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

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

Critical Thinking (8 hours)¹

Course	Hrs	Sem	Grade
RLGN 105	Intr Bwww/Contemp Moral Issues ³	2	_____
RSCH 201	Research 201	3	_____
_____	Critical Thinking Elective	3	_____

Civic & Global Engagement (5 hours)¹

Course	Hrs	Sem	Grade
EVAN 101	Evangelism & Christian Life ³	2	_____
_____	Cultural Studies Elective	3	_____

Social & Scientific Inquiry (7 hours)¹

Course	Hrs	Sem	Grade
_____	Natural Science Elective	4	_____
_____	Social Science Elective	3	_____

Christianity & Contexts (8 hours)¹

Course	Hrs	Sem	Grade
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	_____

Graduation Requirements

136 Total Hours

2.0 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, including technical electives and quantitative studies, 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

Course	Hrs	Sem	Grade
Major Foundational Courses (4-15 hours)			
ENGR 270	Technical Communication ⁴	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}	4	_____

MAJOR

Course	Hrs	Sem	Grade
Core (68 hours)			
CHEM 121	General Chemistry I	4	_____
ENGI 220	Engineering Economy	3	_____
ENGR 102	Introduction to Engineering	1	_____
ENGR 110	Introduction to Engineering Fundamentals	3	_____
ENGR 235	Statics	3	_____
ENGR 240	Dynamics	3	_____
ENGR 315	Fluid Dynamics	3	_____
ENGR 330	Mechanics of Materials	3	_____
ENGR 381	Engineering Design Introduction	3	_____
ENGR 481	Engineering Design I	3	_____
ENGR 482	Engineering Design II	3	_____
ENGV 205	Computer Aided Design	1	_____
ENGV 225	Surveying	2	_____
ENGV 320	Civil Engineering Lab I	2	_____
ENGV 325	Structural Analysis	3	_____
ENGV 345	Soil Mechanics	3	_____
ENGV 355	Civil Engineering Lab II	2	_____
ENGV 365	Hydraulic Engineering	3	_____
ENGV 380	Project & Construction Management	3	_____
ENGV 390	Steel Structure Design	3	_____
ENGV 395	Geotechnical Engineering	3	_____
ENGV 410	Transportation Engineering	3	_____
ENGV 420	Professional Practice	2	_____
ENGV 425	Concrete Structure Design	3	_____
ENGV 492	FE Exam	0	_____
_____	Science Elective ⁶	3	_____

Technical Electives (3 hours)⁷

Quantitative Studies (15 hours)

Course	Hrs	Sem	Grade
ENGR 133	Calculus with MATLAB	1	_____
ENGR 210	Prob. & Statistical Methods for Engr.	3	_____
MATH 231	Calculus & Analytical Geometry III	4	_____
MATH 334	Differential Equations	3	_____
PHYS 232	University Physics II	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

⁴Major Foundational Courses can also fulfill General Education/Core Competency requirements as applicable

⁵Minimum grade of "C" is required

⁶Choose from the following approved Science Courses: BIOL 101, ENVR 215, or ENVR 220

⁷Choose from the following courses: ENGV 415, 440, 455, or 460

Suggested Course Sequence on second page

SUGGESTED COURSE SEQUENCE

FRESHMAN YEAR

First Semester		Second Semester	
ENGL 101	3	BIBL 105	2
MATH 131 ¹	4	INQR 101	1
RLGN 105	2	Communications Elective ³ [ENGR 270]	3
UNIV 101	1	Mathematics Elective ³ [MATH 132 ¹]	4
Technology Competency ²	0-3	Natural Science Elective ³ [PHYS 231 ¹]	4
ENGR 102	1	ENGI 220	3
ENGR 110	3	CSER	<u>0</u>
ENGR 133	1		Total 17
CSER	<u>0</u>		
	Total 15-18		

SOPHOMORE YEAR

RSCH 201	3	Information Literacy Elective ³	3
ENGR 210	3	CHEM 121	4
ENGR 235	3	ENGR 240	3
ENGV 205	1	ENGR 330	3
MATH 231 ¹	4	ENGV 225	2
PHYS 232	4	MATH 334	3
CSER	<u>0</u>	CSER	<u>0</u>
	Total 18		Total 18

JUNIOR YEAR

Cultural Studies Elective ³	3	BIBL 110	2
Social Science Elective ³	3	ENGR 381	3
ENGR 315	3	ENGV 320	2
ENGV 325	3	ENGR 380	3
ENGV 345	3	ENGV 390	3
ENGV 410	3	ENGV 395	3
CSER	<u>0</u>	CSER	<u>0</u>
	Total 18		Total 16

SENIOR YEAR

THEO 201	2	EVAN 101	2
ENGR 481	3	THEO 202	2
ENGV 355	2	Information Literacy Elective ³	3
ENGV 365	3	Critical Thinking Elective ³	3
ENGV 420	2	ENGR 482	3
ENGV 425	3	ENGV 492	0
Science Elective ⁴	3	Technical Elective ⁵	3
CSER	<u>0</u>	CSER	<u>0</u>
	Total 18		Total 16

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

⁴Choose from the following Approved Science Elective Courses: BIOL 101, ENVR 215, or ENVR 220

⁵Choose from the following courses: ENGV 415, 440, 455, or 460