

Important: This degree plan is effective for those starting this degree program in fall 2019 through summer 2020. 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

UNIV 101	University Core Competencies	1	_____
MATH ____	Math Elective (MATH 114 or higher)	4	_____
_____	Technology Competency ²	0-3	_____

Critical Thinking (8 hours)¹

RLGN 105	Intr Bwvw/Contemp Moral Issues ³	2	_____
RSCH 201	Research 201	3	_____
_____	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 (4-15 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 (55 hours)			
CSIS 111	Introduction to Programming	3	_____
ENGI 220	Engineering Economy	3	_____
ENGI 230	Production Systems	3	_____
ENGI 300	Enterprise Forecasting	3	_____
ENGI 305	Data Analysis Methods & Modeling	3	_____
ENGI 330	Facilities Design	3	_____
ENGI 340	Intro. Ops. Res.: Deterministic Models	3	_____
ENGI 350	Intro. Ops. Res.: Probabilistic Models	3	_____
ENGI 360	Engineering Information Systems	3	_____
ENGI 420	Adv. Data Analysis & Machine Learning	3	_____
ENGI 430	Decision Analysis	3	_____
ENGI 450	Human Factors & Ergonomics	3	_____
ENGI 460	Digital Simulation	3	_____
ENGR 102	Introduction to Engineering	1	_____
ENGR 110	Introduction to Engineering Fundamentals	3	_____
ENGR 370	Quality Assurance	3	_____
ENGR 381	Engineering Design Introduction	3	_____
ENGR 481	Engineering Design I	3	_____
ENGR 482	Engineering Design II	3	_____
Technical Electives (9 hours)^{6,7}			
_____	_____	_____	_____
_____	_____	_____	_____

Quantitative Studies (21 hours)

ENGR 133	Calculus with MATLAB	1	_____
ENGR 210	Prob. & Statistical Methods for Engr.	3	_____
MATH 221	Applied Linear Algebra	3	_____
MATH 231	Calculus & Analytical Geometry III	4	_____
MATH 250	Introduction to Discrete Mathematics	3	_____
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

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

⁶Select from the list of Approved Engineering Technical Elective Courses

⁷ENGR 495 (Directed Research) is strongly recommended

Suggested Course Sequence on second page

Graduation Requirements

135 Total Hours

2.0 Overall grade point average

33.75 Hours must be upper-level courses (300-400 level)

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

50% Of major, including technical electives and quantitative studies, taken through Liberty University

33.75 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	
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

EVAN 101	2	ENGI 230	3
RSCH 201	3	ENGI 360	3
Information Literacy Elective ³	3	MATH 221	3
CSIS 111	3	MATH 334	3
MATH 231	4	PHYS 232	4
MATH 250	3	CSER	<u>0</u>
CSER	<u>0</u>	Total	16
Total	18		

JUNIOR YEAR

BIBL 110	2	Critical Thinking Elective ³	3
THEO 201	2	Social Science Elective ³	3
Cultural Studies Elective ³	3	ENGI 305	3
ENGI 330	3	ENGI 350	3
ENGI 340	3	ENGR 370	3
ENGR 210	3	ENGR 381	3
CSER	<u>0</u>	CSER	<u>0</u>
Total	16	Total	18

SENIOR YEAR

THEO 202	2	Information Literacy Elective ³	3
ENGI 300	3	ENGI 450	3
ENGI 420	3	ENGI 460	3
ENGI 430	3	ENGR 482	3
ENGR 481	3	Technical Elective ⁴	3
Technical Elective ⁴	3	Technical Elective ^{4, 5}	3
CSER	<u>0</u>	CSER	<u>0</u>
Total	17	Total	18

Notes

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