LIBERTY UNIVERSITY

Bachelor of Science in Civil Engineering

2019-2020 Degree Completion Plan

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

	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 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 250	Strength of Materials	3		
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)			
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		

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
50%	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

Notes

All applicable prerequisites must be met

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

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

[3]Students 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

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

[5]Minimum grade of "C" is required

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

[7]Choose from the following courses: ENGV 415, 440, 455, 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	0
ENGR 133	1	Total	17
CSER	0		
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	ENGV 225	2
MATH 231[1]	4	ENGV 250	3
PHYS 232	4	MATH 334	3
CSER	0	CSER	0
Total	18	Total	18

JUNIOR YEAR

Cultural Studies Elective[3]	3	ENGR 381	3
Social Science Elective[3]	3	ENGV 355	2
ENGR 315	3	ENGV 365	3
ENGV 320	2	ENGV 380	3
ENGV 325	3	ENGV 390	3
ENGV 345	3	ENGV 395	3
CSER	0	CSER	0
Total	17	Total	17

SENIOR YEAR

BIBL 110	2	EVAN 101	2
THEO 201	2	THEO 202	2
ENGR 481	3	Information Literacy Elective[3]	3
ENGV 410	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	0	CSER	0
Total	18	Total	16

Notes

[1]Minimum grade of "C" is required

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

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

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

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