LIBERTY UNIVERSITY

Bachelor of Science in Electrical Engineering

2018-2019 Degree Completion Plan

Important: This degree plan is effective for those starting this degree program in fall 2018 through summer 2019. 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/ CORE COMPETENCY REQUIREMENTS (46-49 hours)

Course		Hrs	Sem	Grade
Communication (6 hours)[1]				
ENGL 101	Composition & Rhetoric	3		
_____	Communications Elective	3		
Math, Science & Technology (9-12 hours)[1]				
MATH ____	Math Elective (MATH 114 or higher)	4		
_____	Natural Science Elective	4		
_____	Technology Competency[2]	0-3		
UNIV 101	University Core Competencies	1		
Information Literacy (7 hours)[1]				
INQR 101	Inquiry 101	1		
_____	Composition Elective	3		
_____	Information Literacy Elective	3		
Critical Thinking (12 hours)[1]				
RSCH 201	Research 201	3		
_____	Literature OR Philosophy Elective	3		
_____	Social Science Elective	3		
_____	Cultural Studies Elective	3		
Christian Life & Thought (12 hours)[1,3]				
BIBL 105	Old Testament Survey	2		
BIBL 110	New Testament Survey	2		
EVAN 101	Evangelism & Christian Life	2		
RLGN 105	Intr Bwvw/Contemp Moral Issues	2		
THEO 201	Theology Survey I	2		
THEO 202	Theology Survey II	2		

Course		Hrs	Sem	Grade
Major Foundational Courses (4-15 hours)[4]				
ENGR 270	Technical Communication	3		
MATH 131	Calculus & Analytical Geometry I[5]	4		
MATH 132	Calculus & Analytical Geometry II[5]	4		
PHYS 231	University Physics I[5]	4		
MAJOR				
	Core (59 hours)			
CSIS 111	Introduction to Programming	3		
ENGC 361	Computer Architecture	3		
ENGE 201	Introduction to Logic Design	3		
ENGE 211	Intro. to Electrical & Electronic Circuits	4		
ENGE 212	AC Circuit Analysis	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	3		
ENGR 102	Introduction to Engineering	1		
ENGR 110	Introduction to Engineering Fundamentals	3		
ENGR 381	Engineering Design Introduction	3		
ENGR 481	Engineering Design I	3		
ENGR 482	Engineering Design II	3		
_____	_____[6]	3		
	Technical Electives (3 hours)[7,8]			
_____	_____	_		
	Quantitative Studies (21 hours)			
ENGR 133	Calculus with MATLAB	1		
ENGR 210	Prob. & Statistical Analysis for Engr.	3		
MATH 221	Applied Linear Algebra	3		
MATH 231	Calculus & Applied Geometry III	4		
MATH 250	Introduction to Discrete Mathematics	3		
MATH 334	Differential Equations	3		
PHYS 232	University Physics II	4		

Graduation Requirements

133	Total Hours
2.0	Overall grade point average
33.25	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
33.25	Hours must be completed through Liberty University
Grad App	Submission of Graduation 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 enrolling in core competency 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: ENGC 465, ENGE 351 or ENGE 431

[7]Select from the list of Approved Engineering Technical Elective Courses

[8]ENGR 495 (Directed Research) is strongly recommended

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	ENGE 201	3
CSIS 111	3	ENGE 212	4
ENGE 211	4	MATH 221	3
MATH 231[1]	4	MATH 334	3
MATH 250	3	PHYS 232	4
CSER	0	CSER	0
Total	17	Total	17

JUNIOR YEAR

BIBL 110	2	THEO 201	2
EVAN 101	2	Composition Elective[3]	3
ENGE 311	3	ENGE 312	3
ENGE 321	4	ENGE 341	3
ENGE 331	4	ENGE 421	3
ENGR 210	3	ENGR 381	3
CSER	0	CSER	0
Total	18	Total	17

SENIOR YEAR

THEO 202	2	Cultural Studies Elective[3]	3
Literature OR Philosophy Elective[3]	3	Information Literacy Elective[3]	3
ENGC 361	3	Social Science Elective[3]	3
ENGC 465	3	ENGR 482	3
(OR ENGE 351 OR ENGE 431 in Spring)		Technical Elective[4, 5]	3
ENGE 411	3	CSER	0
ENGR 481	3	Total	15
CSER	0		
Total	17		

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

[4]Select from the list of Approved Engineering Technical Elective Courses

[5]ENGR 495 (Directed Research) is strongly recommended