

LIBERTY

UNIVERSITY.

School of Engineering and Computational Sciences
Degree Completion Plan (DCP)

**B.S. in
Electrical Engineering**

Name _____ ID _____

GENERAL EDUCATION: CORE COMPETENCY REQUIREMENTS
(61-65 hours)

ALL GENERAL EDUCATION COURSES MUST BE CHOSEN FROM THE LIST OF "APPROVED RESIDENTIAL GENERAL EDUCATION & INTEGRATIVE COURSES." (www.liberty.edu/gened)

COMMUNICATION (6 hours)

Course	Hrs.	Sem. Taken	Grade
COMS 101 Speech Communication	3	_____	_____
ENGL 101 Composition and Rhetoric	3	_____	_____

MATHEMATICS, SCIENCE, & TECHNOLOGY (19-23 hours)

CRST 290 History of Life	2-3	_____	_____
ENGR 131 Calculus for Engineers	4	_____	_____
ENGR 133 Calculus with MATLAB	1	_____	_____
MATH 132 Calculus/Analytic Geometry II	4	_____	_____
PHYS 231 University Physics I	4	_____	_____
PHYS 232 University Physics II	4	_____	_____
Technology Competency	0-3	_____	_____

INFORMATION LITERACY (6 hours)

ENGL 102 Composition and Literature	3	_____	_____
HIEU 201 or 202 or HIUS 221 or 222	3	_____	_____

CRITICAL THINKING (9 hours)

ENGL 201, 202, 215, 216, 221, or 222	3	_____	_____
ENGR 270 Technical Writing for Engineers	3	_____	_____
HUMN 101, THEA 101, ARTS 105, or MUSC 103	3	_____	_____

BIBLICAL WORLDVIEW (21 hours)

BIBL 105 Old Testament Survey OR ^BIBL 205 Old Testament Life/Literature	3	_____	_____
BIBL 110 New Testament Survey OR ^BIBL 210 New Testament Life/Literature	3	_____	_____
BWVW 101 Biblical Worldview I	2	_____	_____
BWVW 102 Biblical Worldview II	2	_____	_____
EVAN 101 Evangelism and Christian Life	2	_____	_____
PSYC 150 Psychology of Relationships	3	_____	_____
THEO 201 Theology Survey I	3	_____	_____
THEO 202 Theology Survey II	3	_____	_____

^Options available to Honors students

MAJOR: ELECTRICAL ENGINEERING (53-58 hours)

Course	Hrs.	Sem. Taken	Grade
CSCI 111 Intro. to Programming	3	_____	_____
ENGR 110 Introduction to Engineering/ Problem Solving	3	_____	_____
ENGE 201 Intro. to Logic Design	3	_____	_____
ENGE 211 Intro. to Electrical Circuits	4	_____	_____
ENGE 212 AC Circuit Analysis	4	_____	_____
ENGI 220 Engineering Economy	3	_____	_____
ENGE 311 Signals and Systems	3	_____	_____
ENGE 321 Electronics	4	_____	_____
ENGE 331 Electromagnetic Fields	4	_____	_____
ENGE 341 Communications Systems	3	_____	_____
ENGE 361 Computer Architecture	3	_____	_____
ENGR 381 Engineering Design Intro.	3	_____	_____
ENGE 421 Advanced Electronics	3	_____	_____
ENGE 351 Power Systems OR ENGE 431 Electromagnetic Compatibility OR ENGE 465 Intro. to Computer Networks	3	_____	_____
ENGR 481 Engineering Design I	3	_____	_____
ENGR 482 Engineering Design II	3	_____	_____
ENGE 495 Directed Research	1-6	_____	_____

"C" or better is required in all courses

TECHNICAL ELECTIVES (9 hours minimum from list of Approved Engineering Courses)

_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

"C" or better is required in all courses

QUANTITATIVE STUDIES (16 hours)

ENGR 210 Probability/Statistical Methods	3	_____	_____
MATH 231 Calculus/Analytical Geom. III	4	_____	_____
MATH 250 Introduction to Discrete Mathematics	3	_____	_____
MATH 321 Linear Algebra	3	_____	_____
MATH 334 Differential Equations	3	_____	_____

"C" or better is required in all courses

GRADUATION REQUIREMENTS

FRSM 101 Freshman Seminar REQ. _____ MET _____

All Christian/Community Service requirements must be satisfied before a degree will be awarded.

TOTAL – 139 hours minimum required. (Of this total, at least 39 hours must be 300-400 level.)