

# LIBERTY

UNIVERSITY.

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

**B.S. in  
Computer Science**

Name \_\_\_\_\_ ID \_\_\_\_\_

**GENERAL EDUCATION: CORE COMPETENCY REQUIREMENTS**  
(63-67 hours)

**ALL GENERAL EDUCATION COURSES MUST BE CHOSEN FROM THE LIST OF "APPROVED RESIDENTIAL GENERAL EDUCATION & INTEGRATIVE COURSES."** ([www.liberty.edu/gened](http://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** (18-22 hours)

CRST 290 History of Life	2-3	_____	_____
ENGR 131 Calculus for Engineers	4	_____	_____
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** (12 hours)

ENGL 201, 202, 215, 216, 221, or 222	3	_____	_____
HUMN 101, THEA 101, ARTS 105, or MUSC 103	3	_____	_____
PHIL 201 Phil./Contemporary Issues	3	_____	_____
PSYC 210 Development Psychology	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: COMPUTER SCIENCE** (45 hours)

Course	Hrs.	Sem. Taken	Grade
CSCI 110 Computing Foundations/Ethics	3	_____	_____
CSCI 111 Introduction to Programming	3	_____	_____
CSCI 112 Advanced Programming	3	_____	_____
CSCI 215 Algorithms and Data Structures	3	_____	_____
CSCI 325 Database Management Systems	3	_____	_____
CSCI 342 Computer Architecture and Organization	3	_____	_____
CSCI 355 Computer Network Architecture and Programming	3	_____	_____
CSCI 434 Theory of Programming Languages	3	_____	_____
CSCI 443 Operating Systems	3	_____	_____
CSCI 465 Technical Aspects of Information Security OR CSCI 466 Modern Cryptography	3	_____	_____
CSCI 481 Software Engineering	3	_____	_____
CSCI 482 Applied Software Engineering	3	_____	_____
CSCI _____ (any CSCI)	3	_____	_____
CSCI _____ (upper level)	3	_____	_____
CSCI/ENGS _____ (upper level)	3	_____	_____

"C" or better is required in all courses

**DIRECTED COURSES (REQUIRED)** (13 hours)

ENGR 133 Calculus with MATLAB	1	_____	_____
MATH 211 Intro. to Statistical Analysis	3	_____	_____
MATH 250 Introduction to Discrete Math.	3	_____	_____
MATH 321 Linear Algebra	3	_____	_____
MATH 350 Discrete Mathematics	3	_____	_____

"C" or better is required in all courses

**LAB SCIENCE** (4 hours)

BIOL 101/103, 102/104, 224, or CHEM 121 4	_____	_____	_____
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**FREE ELECTIVES** (0-2 hours) Minors are included as elective hours.

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

**GRADUATION REQUIREMENTS**

FRSM 101 Freshman Seminar                      REQ. \_\_\_\_\_ MET \_\_\_\_\_

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

**TOTAL** – 127 hours minimum required. (Of this total, at least 36 hours must be 300-400 level.)