

LIBERTY

UNIVERSITY

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

**B.S. in
Computer Science**

Name _____ ID _____

GENERAL EDUCATION REQUIREMENTS (59 hours)
ALL GENERAL EDUCATION COURSES MUST BE CHOSEN FROM THE LIST OF "APPROVED RESIDENTIAL GENERAL EDUCATION & INTEGRATIVE COURSES." (www.liberty.edu/gened)

FOUNDATIONAL STUDIES (17 hours)
MUST be completed within the first 45 hours of a student's program.
Transfer students must complete within their first year at Liberty.

| Course | Hrs. | Sem. Taken | Grade |
|--|------|------------|-------|
| ENGL 101 Composition and Rhetoric | 3 | _____ | _____ |
| ENGL 102 Composition and Literature | 3 | _____ | _____ |
| COMS 101 Speech Communication | 3 | _____ | _____ |
| MATH 131 Calculus/Analytic Geometry I | 4 | _____ | _____ |
| GNED 101 Contemporary Issues I | 1 | _____ | _____ |
| GNED 102 Contemporary Issues II | 1 | _____ | _____ |
| EVAN 101 Evangelism and Christian Life | 2 | _____ | _____ |

Technology Competency Sem. Passed _____

INVESTIGATIVE STUDIES (42 hours)

| | | | |
|---|---|-------|-------|
| ENGL 201, 202, 215, 216, 221, or 222 | 3 | _____ | _____ |
| PHYS 231 University Physics I | 4 | _____ | _____ |
| PHYS 232 University Physics II | 4 | _____ | _____ |
| HIUS 221 or 222 or HIEU 201 or 202 | 3 | _____ | _____ |
| PSYC 210 Developmental Psychology | 3 | _____ | _____ |
| SOC SCI/HIST _____ | 3 | _____ | _____ |
| HUMN 101, THEA 101, ARTS 105, or MUSC 103 | 3 | _____ | _____ |
| MATH 132 Calculus/Analytic Geometry II | 4 | _____ | _____ |
| PHIL 201 Phil./Contemporary Ideas | 3 | _____ | _____ |
| THEO 201 Theology Survey I | 3 | _____ | _____ |
| THEO 202 Theology Survey II | 3 | _____ | _____ |
| 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 | _____ | _____ |

^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 | _____ | _____ |

DIRECTED COURSES (REQUIRED) (13 hours)

| | | | |
|--|-------|-------|-------|
| MATH 133 Calculus with Mathematica Lab 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 | _____ | _____ |

LAB SCIENCE (4 hours)

| | | | |
|---|---|-------|-------|
| BIOL 101/103, 102/104, 200, or CHEM 121 | 4 | _____ | _____ |
|---|---|-------|-------|

FREE ELECTIVES (6 hours) Minors are included as elective hours, as are CRST 290 and any INFT courses.

| | | | |
|-------|-------|-------|-------|
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| _____ | _____ | _____ | _____ |

GRADUATION REQUIREMENTS

| | | | |
|---------------------------|------|-------|-----------|
| CRST 290 History of Life | 2-3 | _____ | _____ |
| 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.)