

**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 |
|--|-----|-------|-------|
| <b>Communication &amp; Information Literacy (13 hours)<sup>1</sup></b> |     |       |       |
| ENGL 101   | 3   | _____ | _____ |
| INQR 101   | 1   | _____ | _____ |
| _____  | 3   | _____ | _____ |
| _____  | 3   | _____ | _____ |
| _____  | 3   | _____ | _____ |

#### Technological Solutions & Quantitative Reasoning (5-8 hours)<sup>1</sup>

|            |     |       |       |
|------------|-----|-------|-------|
| UNIV 101   | 1   | _____ | _____ |
| MATH _____ | 4   | _____ | _____ |
| _____      | 0-3 | _____ | _____ |

#### Critical Thinking (8 hours)<sup>1</sup>

|          |   |       |       |
|----------|---|-------|-------|
| RLGN 105 | 2 | _____ | _____ |
| RSCH 201 | 3 | _____ | _____ |
| _____    | 3 | _____ | _____ |

#### Civic & Global Engagement (5 hours)<sup>1</sup>

|          |   |       |       |
|----------|---|-------|-------|
| EVAN 101 | 2 | _____ | _____ |
| _____    | 3 | _____ | _____ |

#### Social & Scientific Inquiry (7 hours)<sup>1</sup>

|       |   |       |       |
|-------|---|-------|-------|
| _____ | 4 | _____ | _____ |
| _____ | 3 | _____ | _____ |

#### Christianity & Contexts (8 hours)<sup>1</sup>

|          |   |       |       |
|----------|---|-------|-------|
| BIBL 105 | 2 | _____ | _____ |
| BIBL 110 | 2 | _____ | _____ |
| THEO 201 | 2 | _____ | _____ |
| THEO 202 | 2 | _____ | _____ |

#### 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

| Course   | Hrs | Sem   | Grade |
|--|-----|-------|-------|
| <b>Major Foundational Courses (4-15 hours)</b> |     |       |       |
| ENGR 270                                       | 3   | _____ | _____ |
| MATH 131                                       | 4   | _____ | _____ |
| MATH 132                                       | 4   | _____ | _____ |
| PHYS 231                                       | 4   | _____ | _____ |

#### MAJOR

| Course                 | Hrs | Sem   | Grade |
|------------------------|-----|-------|-------|
| <b>Core (65 hours)</b> |     |       |       |
| CHEM 121               | 4   | _____ | _____ |
| ENGI 220               | 3   | _____ | _____ |
| ENGM 310               | 3   | _____ | _____ |
| ENGM 350               | 3   | _____ | _____ |
| ENGM 375               | 2   | _____ | _____ |
| ENGM 415               | 3   | _____ | _____ |
| ENGM 445               | 4   | _____ | _____ |
| ENGR 102               | 1   | _____ | _____ |
| ENGR 110               | 3   | _____ | _____ |
| ENGR 125               | 1   | _____ | _____ |
| ENGR 235               | 3   | _____ | _____ |
| ENGR 240               | 3   | _____ | _____ |
| ENGR 313               | 4   | _____ | _____ |
| ENGR 315               | 3   | _____ | _____ |
| ENGR 330               | 4   | _____ | _____ |
| ENGR 360               | 3   | _____ | _____ |
| ENGR 381               | 3   | _____ | _____ |
| ENGR 385               | 3   | _____ | _____ |
| ENGR 405               | 3   | _____ | _____ |
| ENGR 481               | 3   | _____ | _____ |
| ENGR 482               | 3   | _____ | _____ |
| PHYS 320               | 3   | _____ | _____ |

#### Technical Electives (6 hours)<sup>6,7</sup>

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

#### Quantitative Studies (15 hours)

|          |   |       |       |
|----------|---|-------|-------|
| ENGR 133 | 1 | _____ | _____ |
| ENGR 210 | 3 | _____ | _____ |
| MATH 231 | 4 | _____ | _____ |
| MATH 334 | 3 | _____ | _____ |
| PHYS 232 | 4 | _____ | _____ |

#### Notes

All applicable prerequisites must be met

<sup>1</sup>Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling in foundational skill requirements

<sup>2</sup>All students must pass the Computer Assessment OR complete applicable INFT course; refer to [www.liberty.edu/computerassessment](http://www.liberty.edu/computerassessment) for more information

<sup>3</sup>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

<sup>4</sup>Courses may also fulfill select General Education Requirements. Please refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened)

<sup>5</sup>Minimum grade of "C" is required

<sup>6</sup>Select from the list of Approved Engineering Technical Elective Courses

<sup>7</sup>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 <sup>1</sup>              | 4        | INQR 101   | 1        |
| RLGN 105                           | 2        | Communications Elective <sup>3</sup> [ENGR 270]                | 3        |
| UNIV 101                           | 1        | Mathematics Elective <sup>3</sup> [MATH 132 <sup>1</sup> ]     | 4        |
| Technology Competency <sup>2</sup> | 0-3      | Natural Science Elective <sup>3</sup> [PHYS 231 <sup>1</sup> ] | 4        |
| ENGR 102                           | 1        | ENGI 220   | 3        |
| ENGR 110                           | 3        | CSER   | <u>0</u> |
| ENGR 133                           | 1        | Total  | 17       |
| CSER                               | <u>0</u> |  |          |
| Total                              | 15-18    |  |          |

### SOPHOMORE YEAR

|                       |          |          |          |
|-----------------------|----------|----------|----------|
| EVAN 101              | 2        | RSCH 201 | 3        |
| CHEM 121              | 4        | ENGM 310 | 3        |
| ENGR 125              | 1        | ENGR 210 | 3        |
| ENGR 235              | 3        | ENGR 240 | 3        |
| MATH 231 <sup>1</sup> | 4        | MATH 334 | 3        |
| PHYS 232              | 4        | PHYS 320 | 3        |
| CSER                  | <u>0</u> | CSER     | <u>0</u> |
| Total                 | 18       | Total    | 18       |

### JUNIOR YEAR

|  |          |   |          |
|--|----------|---|----------|
| THEO 201                                   | 2        | THEO 202                                | 2        |
| Cultural Studies Elective <sup>3</sup>     | 3        | Critical Thinking Elective <sup>3</sup> | 3        |
| Information Literacy Elective <sup>3</sup> | 3        | ENGM 350                                | 3        |
| ENGR 315                                   | 3        | ENGM 375                                | 2        |
| ENGR 360                                   | 3        | ENGR 330                                | 4        |
| ENGR 385                                   | 3        | ENGR 381                                | 3        |
| CSER                                       | <u>0</u> | CSER                                    | <u>0</u> |
| Total                                      | 17       | Total                                   | 17       |

### SENIOR YEAR

|                                   |          |  |          |
|-----------------------------------|----------|--|----------|
| BIBL 110                          | 2        | Information Literacy Elective <sup>3</sup> | 3        |
| ENGR 313                          | 4        | Social Science Elective <sup>3</sup>       | 3        |
| ENGM 415                          | 3        | ENGM 445                                   | 4        |
| ENGR 405                          | 3        | ENGR 482                                   | 3        |
| ENGR 481                          | 3        | Technical Elective <sup>4,5</sup>          | 3        |
| Technical Elective <sup>4,5</sup> | 3        | CSER                                       | <u>0</u> |
| CSER                              | <u>0</u> | Total                                      | 16       |
| Total                             | 18       |  |          |

#### Notes

<sup>1</sup>Minimum grade of "C" is required

<sup>2</sup>All students must pass the Computer Assessment OR complete applicable INFT course; refer to [www.liberty.edu/computerassessment](http://www.liberty.edu/computerassessment) for more information

<sup>3</sup>Refer to the list of approved general education electives at [www.liberty.edu/gened](http://www.liberty.edu/gened) before enrolling in foundational skills requirements

<sup>4</sup>Select from the list of Approved Engineering Technical Elective Courses

<sup>5</sup>ENGR 495 (Directed Research) is strongly recommended