# Computer Engineering (B.S.)

Online | Regent University | College of Arts & Sciences

Active students should refer to their personalized Degree Works plan, and the Academic Catalog of their acceptance term for the most accurate degree requirements.

## General Education Core Curriculum

| | Code | Title | Hrs |
|---|---|---|---|
| | **BIBLICAL WORLDVIEW: CORNERSTONE AND CAPSTONE** | | |
| ☐ | GENE 100 | The Making of the Christian Mind [1] | 3 |
| ☐ | GENE 402 | The Making of a Christian Leader [1] | 3 |
| | **WRITTEN AND ORAL COMMUNICATION** | | |
| ☐ | UNIV 100 | Regent Foundations of Success [2] | 3 |
| ☐ | ENGL 101 | English Composition | 3 |
| | **CRITICAL THINKING AND MORAL REASONING** | | |
| ☐ | ENGL 102 | Research and Academic Writing [3] | 3 |
| ☐ | GENE 250 | The Making of the Christian Life | 3 |
| | **QUANTITATIVE AND SCIENTIFIC LITERACY** | | |
| | *Mathematics* | | |
| ☐ | MATH 211 | Calculus I [4] | 4 |
| | *Natural Science* | | |
| | PHYS 221 | University Physics I [5] | 4 |
| | **LITERATURE** | | |
| ☐ | ENGL 205 | Literature of the Western World | 3 |
| | **ECONOMICS** | | |
| ☐ | ECON 101 | Introduction to Economics [6] | 3 |
| | **U.S. HISTORY OR GOVERNMENT** | | |
| | *U.S. History or Government — Choose 1 from below* | | |
| ☐ | HIST 201 | U.S. History I (to 1877) | 3 |
| ☐ | HIST 202 | U.S. History II (from 1877) | 3 |
| ☐ | GOVT 201 | The American Republic | 3 |
| | **Total Hours** | | **28** |

*[1] GENE 100 and GENE 402 must be taken at Regent University.*

*[2] Online students take UNIV 100 Regent Foundations of Success in lieu of COMM 110.*

*[3] Must earn C- or better in ENGL 101 before taking ENGL 102.*

*[4] Computer Engineering majors must complete MATH 211*

*[5] Computer Engineering majors must complete PHYS 221*

*[6] Computer Engineering majors must complete ECON 101*

*[7] Students can choose to take either MATH 301 or ENGR 225 - Prob, Stats and Quant Methods with Lab*

## Major Requirements — Computer Engineering

| | Code | Title | Hrs |
|---|---|---|---|
| | **MATH AND BASIC SCIENCE REQUIREMENTS** | | |
| ☐ | MATH 102 | College Algebra | 3 |
| ☐ | MATH 164 | Precalculus | 3 |
| ☐ | MATH 212 | Calculus II | 4 |
| ☐ | MATH 213 | Calculus III | 4 |
| ☐ | MATH 220 | Discrete Mathematics | 3 |
| ☐ | MATH 230 | Linear Algebra | 3 |
| ☐ | MATH 301 | Probability and Statistics I [7] | 3 |
| ☐ | MATH 320 | Differential Equations | 3 |
| ☐ | PHYS 222 | University Physics II with Lab | 4 |
| | **ENGINEERING CORE REQUIREMENTS** | | |
| ☐ | ENGR 201 | Engineering Foundations I | 3 |
| ☐ | ENGR 202 | Engineering Foundations II | 3 |
| ☐ | ENGR 220 | Systems Thinking and Approach | 3 |
| ☐ | ENGR 240 | Engineering Economy | 3 |
| ☐ | ENGR 491 | Engineering Capstone I | 4 |
| ☐ | ENGR 492 | Engineering Capstone II | 4 |
| ☐ | CSCI 201 | Introduction to Computer Science | 3 |
| ☐ | CSCI 233 | Ethics for Computer Science | 3 |
| | **COMPUTER ENGINEERING REQUIREMENTS** | | |
| ☐ | ECEN 320 | Digital Systems Design | 3 |
| ☐ | ECEN 201 | Circuits | 3 |
| ☐ | ECEN 310 | Microprocessors | 3 |
| ☐ | ECEN 340 | Signals and Systems | 3 |
| ☐ | ECEN 410 | Embedded Systems | 3 |
| ☐ | CSCI 210 | Computer Architecture | 3 |
| ☐ | CSCI 314 | Programming | 3 |
| ☐ | CSCI 315 | Data Structures and Algorithms | 3 |
| ☐ | CSCI 450 | Software Engineering | 3 |
| ☐ | ISYS 324 | Network and Telecommunication Concepts | 3 |
| | **Total Hours** | | **86** |

*Must earn C- (1.67) or better in all major courses.*

## Graduation Requirements

✓ 120 Total credit hours, ✓ 2.0 Minimum overall GPA, ✓ C- (1.67) minimum in all major courses

**Regent University has the right to add to or change this worksheet. This Degree Worksheet is an unofficial document.*