

COMPUTER ENGINEERING CURRICULUM SHEET | FALL 2012

FRESHMAN (31)

| FALL | | | SPRING | | |
|----------|--------------------------------|---|----------|---------------------------------|---|
| CSCE 145 | Intro. Algorithmic Design I | 4 | CSCE 146 | Intro. Algorithmic Design II | 4 |
| CSCE 190 | Computing in Modern World | 1 | CSCE 215 | UNIX/Linux Fundamentals | 1 |
| ENGL 101 | Critical Reading & Composition | 3 | ENGL 102 | Rhetoric & Composition | 3 |
| MATH 141 | Calculus I | 4 | MATH 142 | Calculus II | 4 |
| CHEM 111 | General Chemistry I | 4 | ELECTIVE | AIU Aest. & Intr. Understanding | 3 |
| | | | | | |
| 16 | | | 15 | | |

SOPHOMORE (32)

| FALL | | | SPRING | | |
|-------------|--------------------------------|---|-------------|--------------------------------|---|
| CSCE 211 | Digital Logic Design | 3 | CSCE 212 | Intro to Comp. Architecture | 3 |
| CSCE 240 | Intro. to Software Engineering | 3 | PHYS 212& L | Essentials of Physics II & Lab | 4 |
| MATH 241 | Vector Calculus | 3 | MATH 242 | Elem. Differential Equations | 3 |
| PHYS 211& L | Essentials of Physics I & Lab | 4 | MATH 374 | Discrete Structures | 3 |
| ELCT 102 | Electrical Science | 3 | ELCT221 | Circuits | 3 |
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| 16 | | | 16 | | |

JUNIOR (31)

| FALL | | | SPRING | | |
|----------|-------------------------------|---|----------|------------------------------|---|
| CSCE 311 | Operating Systems | 3 | CSCE 313 | Embedded Systemes | 3 |
| CSCE 374 | Robotic Applications & Design | 3 | CSCE 317 | Systems Engineering | 3 |
| ELCT 222 | Signals and Systems | 3 | CSCE 350 | Data Structures & Algorithms | 3 |
| SPCH 140 | Public Communication | 3 | CSCE 390 | Prof. Issues in CSCE | 1 |
| STAT 509 | Statistics for Engineers | 3 | ELCT 371 | Electronics | 3 |
| | | | | Techical/Business Writing | 3 |
| 15 | | | 16 | | |

SENIOR (31)

| FALL | | | SPRING | | |
|----------|---------------------------|---|----------|----------------------------|---|
| ENCP 481 | Project Management | 1 | ENCP 492 | Capstone Design Project II | 3 |
| ENCP 491 | Capstone Design Project I | 3 | CSCE xxx | CSCE Elective | 3 |
| CSCE 416 | Networks | 3 | CSCE xxx | CSCE Elective | 3 |
| CSCE 611 | Advanced Digital Design | 3 | MATH 5xx | MATH elective | 3 |
| CSCE xxx | CSCE Elective | 3 | ELECTIVE | GHS Historical Thinking | 3 |
| ELECTIVE | GSS Social Science | 3 | | | |
| 16 | | | 15 | | |

Carolina Core (34 hours)

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| AIU: Aesthetic & Interpretive Understanding any approved Carolina Core course for AIU |
| ARP: Analytical Reasoning & Prob. Solving MATH 141, MATH 142 |
| CMW: Communication - Writing ENGL 101, ENGL 102 |
| SCI: Scientific Literacy PHYS 211 & L, PHYS 212 & L |
| GFL: Global Citizenship - Foreign Language Score of "2" or better on FLPT, any approved course(s) Carolina Core for GFL |

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| GHS: Global Citizenship Historical Thinking any approved Carolina Core course for GHS |
| GSS: Global Citizenship Social Science any approved Carolina Core course for GSS |
| Overlay Courses |
| CMS: Communication - Spoken Component any approved Carolina Core course for CMS |
| INF: Information Literacy any approved Carolina Core course for INF |
| VSR: Values, Ethics, Social Responsibility any approved Carolina Core course for VSR |

Aesthetic and Interpretive Understanding (AIU)

approved course from Carolina Core list

Effective, Engaged, and Persuasive Communications (CMW)

Writing USC ENGL 101, 102 or approved courses from Carolina Core list

Global Citizenship and Multicultural Understanding

Historical Thinking (GHS) approved course from Carolina Core list

Social Science (GSS) approved course from Carolina Core list

Foreign Language (GFL) score of "2" or higher or approved course(s) from Carolina Core list

Analytical Reasoning and Problem Solving (ARP)

USC MATH 141, 142 or approved courses from Carolina Core list

Scientific Literacy (SCI)

USC PHYS 211 & L, 212 & L, CHEM 111

Overlay Courses

Spoken Component (CMS)

USC SPCH 140 or approved course from Carolina Core list

Information Literacy (INF)

USC ENGL 102 or approved course from Carolina Core list

Values Ethics, Social Responsibility (VSR)

USC CSCE 390 or approved course from Carolina Core list

CSCE Major Electives (9 hours)

CSCE 330, 355, ELCT 321, ELCT 331, and most CSCE courses numbered 510 or higher.

MATH Elective (3 hours)

MATH 526, 527, 544, or CSCE 561. Other courses in linear algebra or numerical analysis may be substituted with permission of the department.

Note: all CSCE courses must be completed with a C or better.