## COMPUTER SCIENCE – 2011 to Present

|  | FALL | Grade |  | SPRING | Grade |
|---|---|---|---|---|---|
| **FRESHMAN YEAR** | | | | | |
| ES 1000 Orientation to Engr (I, L) | 1 | MATH 2205 Calculus II | 4 |
| MATH 2200 Calculus I | 4 | Science II [1] | 4 |
| Science I [1] | 4 | COSC 1030 Computer Science I | 4 |
| COSC 1010 Intro Programming | 4 | COJO 1010 Public Speaking | 3 |
| ENGL 1010 English Comp I | 3 | PEAC 1001 PE Activity | 1 |
| | 16 | | 16 |

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|---|---|---|---|---|---|
| **SOPHOMORE YEAR** | | | | | |
| COSC 2150 Computer Organization | 3 | MATH Math Elective [2] | 3 |
| COSC 2030 Computer Science II | 4 | COSC 3011 Software Design | 3 |
| COSC 2300 Discrete Structures | 3 | COSC 3020 Algor and Data Struct | 4 |
| Foreign Language I [3] | 4 | Foreign Language II [3] | 4 |
| Cultural Context | 3 | Cultural Context | 3 |
| | 17 | | 17 |

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|---|---|---|---|---|---|
| **JUNIOR YEAR** | | | | | |
| COSC 3015 Functional Programming | 3 | COSC COSC Elective [6] | 3 |
| COSC OS Course [7] | 4 | Science Elective [4] | 4 |
| COSC COSC Elective [6] | 3 | COSC 3050 Ethics | 1 |
| Science Elective [4] | 4 | Cultural Context | 3 |
| US & Wyo Constitutions | 3 | MATH Math Elective [2] | 3 |
| | 17 | | 14 |

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|---|---|---|---|---|---|
| **SENIOR YEAR** | | | | | |
| COSC 4950 Senior Design I | 1 | COSC 4955 Senior Design II | 2 |
| COSC System Course [8] | 3 | COSC COSC Elective [6] | 3 |
| STAT 4220 Engineering Statistics [11] | 3 | COSC COSC Elective [6] | 3 |
| COSC Theory Course [9] | 3 | COSC Prog Lang Course [10] | 3 |
| ENGL 4010 Sci & Tech Writing (WC) | 3 | UDNC [5] | 3 |
| UDNC [5] | 3 | | |
| | 16 | | 14 |

Total Hours:   127

**A grade of C or better must be earned in all COSC, MATH and STAT courses**

[1] Science I & II:  CHEM 1020 & 1030 or CHEM 1050 & 1060 or LIFE 1010 & 2022 or PHYS 1210 & 1220 or PHYS 1310 & 1320

[2] Math Elective: MATH 2210 or higher (except for MATH 4000, 4100, 4150, 4800), COSC 4320, 4340 or STAT 3000-5999

[3] Foreign Language I & II:  Two semesters of a single foreign language including American Sign Language, or credit by exam, AP, or CLEP

[4] Science Electives:  Any USP S, SP, SB, SE including EE 2390

[5] UDNC: Upper Division (3000- or 4000-level) Non-COSC Course

[6] COSC Electives (total of 12 hours):  Any 3000+ COSC course, not fulfilling another requirement.
    1 of the 4 COSC Electives can be from the Computer Engineering (CPEN) Elective List

[7] Operating Systems Course:  COSC 4740

[8] System Course:  COSC 4820 or 4760

[9] Theory Course:  COSC 4100 or 4200

[10] Programming Language Course:  COSC 4780 or 4785

[11] or MATH/STAT 4255 or MATH/STAT 4265

Cultural context must meet the following requirements:
   1)  1-CH course, 1-CS course, 1-CA course
   2)  1-WB course, 1-G course, 1-D course
   **A minimum of 48 credit hours must be upper division (3000+) level.**