

| | UCC Course Number/Title | Credits | Terms | Prerequisites/Notes | | |
|----------------------|-------------------------|--|-------|---------------------|---|----|
| Term 1 | CS 160 | Orientation to Computer Science | 4 | F | MTH 095 | 15 |
| | HPE 295 | Wellness & Health | 3 | F, W, S, SU | None | |
| | WR 121 | Academic Composition* | 4 | F, W, S, SU | WR 115, RD 90 each with a grade of C or better, or appropriate placement test scores or placement by multiple measures; and basic computer word processing skills | |
| | Elective | Biological Science with Lab | 4 | F, W, S, SU | See Advisor | |
| Term 2 | CS 161 | Computer Science I | 4 | W | MTH 111 or equivalent | 16 |
| | MTH 251 | Calculus I | 5 | F, W | MTH 112 or with a grade of C or better, or instructor permission | |
| | WR122 | Argument, Research & Multimodal Composition* | 4 | F, W, S, SU | WR 121 with a grade of C or better | |
| | Elective | Social Sciences Elective** | 3 | F, W, S, SU | See Advisor | |
| Term 3 | CS 162 | Computer Science II | 4 | S | CS 161 | 18 |
| | MTH 252 | Calculus II | 4 | W, S | MTH 251 with a grade of C or better, or instructor permission | |
| | CIS 275 | Introduction to Data Management Systems I**** | 4 | S | CIS 133 or instructor approval. Advisor can approve if CS161 is taken. | |
| | Elective | Arts & Letters Elective** | 3 | F, W, S, SU | See Advisor | |
| | Elective | Social Sciences Elective** | 3 | F, W, S, SU | See Advisor | |
| Term 4 | CIS195 | Authoring for the Web I | 4 | F | CIS 120 or instructor approval. Advisor can approve if CS161 is taken. | 16 |
| | CS 260 | Data Structures | 4 | F | CS 162 and MTH 111 or higher or instructor approval | |
| | Elective | Physical Science with Lab | 5 | F, W, S, SU | See Advisor | |
| | Elective | Social Sciences Elective** | 3 | F, W, S, SU | See Advisor | |
| Term 5 | CIS 295 | Authoring for the Web II | 4 | W | CIS 195 and CIS 275 or instructor approval. | 16 |
| | MTH 231 | Elements of Discrete Mathematics I | 4 | W | MTH 111 or MTH 105T or equivalent with a grade of C or better, or instructor permission | |
| | SP 111 | Fundamentals of Public Speaking | 4 | F, W, S, SU | WR 095 with a grade of C or better or placement by approved measures; AND RD 090 with a grade of C or better or placement by approved measure | |
| | Elective | Biological Science with Lab OR Physical Science with Lab | 4 | F, W, S, SU | 4 - 5 credits. See Advisor | |
| Term 6 | CS 271 | Computer Architecture & Assembly Language | 4 | S | CS 162 or instructor approval. May not offer every year, depend on enrollment. | 15 |
| | MTH 265 | Statistics for Scientists and Engineers | 4 | S | MTH 252 with a grade of C or better | |
| | WR 227 | Technical Report Writing* | 4 | F, W, S, SU | Successful completion of WR 121 (4 credits) with a grade of C or better | |
| | Elective | Arts & Letters Elective** | 3 | F, W, S, SU | See Advisor | |
| Total Credits | | 96 | | | | |

Program Advisor:

NOTES:

Note that each CS core course must be completed with a grade of "C" or better. Many CS programs have competitive admission. Minimum GPA and grades will not generally be high enough to guarantee admission into any transfer institution.

* A grade of C or better must be attained in the courses indicated.

** One Arts & Letters Elective or Social Sciences Elective must meet Cultural Literacy requirement.

*** **Recommended Computer Science Elective**

**** Prerequisites of required courses

Faculty Advisor: John Blackwood 541-440-7686 john.blackwood@umpqua.edu

Faculty Advisor: Vincent Yip 541-440-7886 vincent.yip@umpqua.edu

If students choose to vary from this suggested sequence, then prerequisites and term availability must be watched closely because class time conflicts may arise, and/or desired courses may not be available.

| Approved Electives | | |
|--------------------|--|--------|
| CIS125D | Computer Applications – Database | 3 |
| CIS125S | Computer Applications – Spreadsheet Software | 3 |
| CIS151C | Introduction to Networks | 4 |
| CIS240M | Installing & Configuring Microsoft Windows Server | 4 |
| CIS275 | Introduction to Database Management Systems I | 4 |
| CIS276 | Introduction to Database Management Systems II | 4 |
| CIS295 | Authoring for the Web II | 4 |
| CS271 | Computer Architecture & Assembly Language | 4 |
| ENGR201 | Electrical Fundamentals I | 4 |
| ENGR271 | Digital Logic Design | 3 |
| ENGR272 | Digital Logic Design Lab | 1 |
| MTH112 | Elementary Functions | 4 |
| MTH231 | Elements of Discrete Mathematics I | 4 |
| MTH253 | Calculus III | 4 |
| MTH254 | Vector Calculus I | 4 |
| MTH261 | Linear Algebra | 2 |
| PE102 | Physical Education or higher (exclude PE 199 or PE 299) | 1 to 4 |
| WR122 | Argument, Research, & Multimodal Composition | 4 |
| WR227 | Technical Report Writing | 4 |