

## COMPUTER SCIENCE UNDERADUATE MAJOR

Computer science requirements are subject to minor program changes. The published curricula are general guides. Students should consult the department office for current information.

Students must complete ENGL 4010; COSC 1010, 1030, 2030, 2150, 2390, 2402 or 3015, 3020, 3050, 4100, 4700 or EE 4490, 4740, 4780, and 4900 or 4850; and 6 semester hours from among COSC 4350, 4450, 4530, 4550, 4750, 4755, 4760, 4790, 4820, 4840, or EE 4390 or at most three semester hours from COSC 3900, 3970, or 4010.

The science requirement is PHYS 1210 and 1220, or 1310 and 1320, or BIOL 1010 and 2020, or CHEM 1020 and 1030; two additional courses from among ASTR 2310, BIOL 1010, 2020, CHEM 1020, 1030, 1050, ES 2210, 2120, GEOL 1100, 1200, 2000, PHYS 1210, 1220, 1310, 1320, 2310.

The mathematics requirement is MATH 2200, 2205, COSC 2300, STAT 4420 and 6 semester hours selected from among MATH 2210, or higher numbered courses, COSC 4340 or STAT 3000- or 4000-level courses, except for MATH 2350, 2355, 4000 and variable-credit courses.

The foreign language requirements is two semesters of a single foreign language (or one semester at the 2<sup>nd</sup> or 3<sup>rd</sup>-semester level), American Sign Language, or satisfactory score on one of the following; Departmental Examination, College Level Examination Program, Advanced Placement Examination. Refer to languages department section in this bulletin for detailed information.

Additional requirements: 9 upper-division hours, in non COSC courses. All COSC, MATH, and STAT courses must have a grade of C or better.

## SUGGESTED B.S. PROGRAM IN COMPUTER SCIENCE

### *Course Sequence of Major requirements*

In addition to taking the courses listed above, students must also choose courses that satisfy the following University Studies Program requirements: Writing 1 (WA), Writing 2 (WB), Writing 3 (WC), three cultural context courses (CH, CS, CA), oral communications (O), U.S. and Wyoming Constitutions requirement (V), Global Awareness (G), Information Literacy (L), U.S. Diversity (D), Intellectual Community (I) and Physical Activity (P). In addition, the student's program must fulfill the university requirement of 48 semester credit hours in upper division (junior/senior) or graduate-level courses. Students are free to satisfy program requirements in any order that complies with course prerequisites.

| <b>FRESHMAN YEAR: Fall</b> | <i>Hrs.</i> |
|----------------------------|-------------|
| ES 1000                    | 1           |
| COSC 1010                  | 4           |
| MATH 2200                  | 4           |
| SCIENCE I                  | 4           |

**FRESHMAN YEAR: Spring**      *Hrs.*  
COSC 1030                              4  
MATH 2205                              4  
Science II                                4

**SOPHOMORE YEAR: Fall**      *Hrs.*  
COSC 2150                              3  
COSC 2030                              4  
Foreign Language I                    4

**SOPHOMORE YEAR: Spring**      *Hrs.*  
COSC 2390                              4  
COSC 2300                              3  
MATH elective                         3  
Foreign Language II                    4

**JUNIOR YEAR: Fall**      *Hrs.*  
COSC 3015                              3  
COSC 3020                              4  
COSC 4700 OR EE 4490                3  
Science elective                        4

**JUNIOR YEAR: Spring**      *Hrs.*  
COSC 4740                              4  
COSC 3050                              1  
Science elective                        4  
MATH elective                         3  
Upper division non-COSC (UDNC) 3

**SENIOR YEAR: Fall**      *Hrs.*  
COSC elective                         3  
STAT 4220                              3  
COSC 4100                              3  
ENGL 4010                              3  
UDNC                                    3

**SENIOR YEAR: Spring**      *Hrs.*  
COSC project                         3-4  
COSC elective                         4  
COSC 4780                              3  
UDNC                                    3