



BACHELOR OF SCIENCE: COMPUTER SCIENCE

DEPARTMENT OF COMPUTER AND INFORMATION SCIENCES (COINS)

Liberal Arts Core Requirements (46 hrs):

- | | |
|---|--|
| ___ (3) English 111 * | ___ (3) History 111, 112 or 113 |
| ___ (3) English 112 * | ___ (3) Another History or Political Science 201 |
| ___ (3) English 202, 203 or 204 | |
| ___ (3) Communication 110 | ___ (3) Fine Arts: (any one of Art 201, 202, Music 171 or Music 371) |
| ___ (3) Chin, Wrld, Fren, Span 213, or any Foreign Language at 200 level; or Music 241 (rqd for Music Majors) | |
| ___ (4) COIN 235 Intro to Cmp Science * | ___ (4) Math 221 Calculus I * |
| ___ (3) Religion 111 or 112 | ___ (4) ___ (4) Lab Sciences (Two courses from different science disciplines. One of the two must be from: BIOL 141; CHEM 121 (w/ 123 lab); or Physics 201 or 203.) |
| ___ (3) Social Sci: (one of: Crim 210; Econ 211 or 212; Kine 201; Poli 101; Psc 110; Soci 101, 203 or 205) | |

Computer Science/Mathematics Requirements (56 hrs):

- | | |
|--|--|
| ___ (3) MATH 213 Prblty and Statistics or | ___ (4) COIN 415 Algorithms/Theory |
| ___ (2) MATH 346 and (2) Math 347 | ___ (4) COIN 431 Advanced Operating Sys |
| ___ (4) MATH 222 Calculus II | ___ (3) COIN 495 Systems Analysis/Design |
| ___ (4) MATH 321 Calculus III or | ___ (0) COIN 496 Portfolio Review |
| ___ MATH 326 Linear Algebra | ___ (1) COIN 497 Senior Project Design |
| ___ (3) MATH 330 Discrete Mathematics | ___ (1) COIN 498 Senior Project Construction |
| | ___ (1) COIN 499 Sr Proj Implement/Defense |
| ___ (4) COIN 315 Data Structures | 8 elective COIN hours at 300/above, from: |
| ___ (4) COIN 325 Java w/Elem Data Strc | COIN 322 Multimedia (4) 326 Java II (4); 334 User- |
| ___ (4) COIN 330 Computer Architecture | Intfce Pgm (4); 409 Artfcl Intl (4); 419 Database |
| ___ (4) COIN 332 Applied Networking | Mgt (4); 432 Mobile/Wireless Ntwk(4); 433 Ntwk |
| ___ (4) COIN 333 Applied Systems | Security(4); 435 Adv Ntwk (4); 450 Graphics (4) |

Scientific Method Requirement (4 hrs):

- ___ (4) Any one of: CHEM 122 w/ 214 lab, BIOL 142 or any BIOL with 141 as prerequisite, PHYS 202 or 204.

Elective Requirements (19 hrs):

Any 19 hrs can be taken; however, the following are suggested or may be required as prerequisites.

- | | |
|------------------|---|
| ___ (3) MATH 111 | College Algebra (Prerequisite for Math 130 Precalculus.) |
| ___ (3) MATH 130 | Precalculus (Prerequisite for Math 221 Calculus I.) |
| ___ (4) COIN 215 | Intro to Info Technology (Alternative if lacking programming experience.) |
| ___ (4) COIN 217 | Visual BASIC Programming (Alternative if lacking programming experience.) |
| ___ (1) GNED 101 | Freshman Seminar for Computer Science |

Notes:

1. This major does not require a minor.
2. Prior to entry into the senior project series, student must submit a portfolio for review . See COIN 496 in catalog.
3. * Indicates courses that must be completed within the first four major terms (Fall and Spring).
4. Students must begin cognate requirements in the freshman year else they cannot complete in four years (due to scheduling and prerequisites). If a student needs prerequisites before beginning the cognate requirements, then summer courses may be required to move into the proper scheduling cycle for completion in four years.
5. Graduates must meet residency requirements. The current catalog residency requirements are: 36 of the last 46 hours must be earned while attending CSU. Of these, at least 12 must be 300-400 level courses.
6. Degree checks by Registrar: Should do at 61and 91 earned credit hours. Mandatory in the next-to-last semester.
7. Full-time day students must meet convocation requirements. See the Student Development section of the catalog.
8. In cases of conflict between this checklist and the catalog, the catalog takes precedence.