Bachelor of Science in Computer Science

Curriculum Flowchart

**Foundational Curriculum Courses**

- CS 1411: PROG PRINC I
- CS 1412: PROG PRINC II
- CS 2413: DATA STRUCTURES
- CS 1382: DISCR COMP STRUC
- MATH 1451: CALCULUS I
- MATH 1452: CALCULUS II
- PHYS 1408: PHYSICS I
- ENGL 1301: ESS COLL RHET

**Computer Science Courses**

- CS 1411: PROG PRINC I
- CS 1412: PROG PRINC II
- CS 2372: MOD DIG SYS DES
- CS 2413: DATA STRUCTURES
- CS 1382: DISCR COMP STRUC
- MATH 1451: CALCULUS I
- MATH 1452: CALCULUS II
- PHYS 1408: PHYSICS I
- ENGL 1301: ESS COLL RHET

**Engineering**

- ECE 2372: MOD DIG SYS DES
- MATH 2450: CALCULUS III
- ENGR 2392: ENGR ETHICS

**Science Requirements**

- NAT SCI ELECTIVE***
- PHYS 1408: PHYSICS I
- PHYS 2401: PHYSICS II
- ENGR 2392: ENGR ETHICS

**Core Curriculum Electives**

- CS 3364: DES ANAL ALGOR
- CS 3365: SOFT ENGR I
- CS 3366: SR CAPSTONE PROJ
- CORE CURR ELECTIVE*
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**Math Requirements**

- MATH 1451: CALCULUS I
- MATH 1452: CALCULUS II
- MATH 2450: CALCULUS III
- MATH 3342: PROB & STATS

**General Education Requirements**

- ENGL 1302: ADV COLL RHET
- ENGL 2311: TECHNICAL WRITING
- ENGL 2301: TECHNICAL WRITING
- ENGR 2392: ENGR ETHICS
- MATH 3360: LINEAR ALGEBRA
- MATH 3342: PROB & STATS

Completion of Foundational Curriculum Courses with a C or higher and minimum 2.5 GPA indicate eligibility to move into the CS major. See the academic advisor for completion of proper paperwork.

All students must satisfy the university foreign language requirement with 2 years of foreign language credit from high school or 2 semesters of college credit.

Minimum hours for graduation: 126

*See Core Curriculum C. Life and Physical Science university approved list in the online HTML version of the academic catalog.

** Computer Science Electives: Choose from any 3000 or 4000 level computer science courses that are not required for the CS major.

** In accordance with the university catalog, an Intent to Graduate must be filed with Whitacre College of Engineering Dean's Office one year before graduation.