Bachelor of Science in Computer Science
Curriculum Flowchart – 2015-2016

Semesters

1st

- CS 1411 PROG PRINC I
- MATH 1451 CALCULUS I
- NAT SCI ELECTIVE***

2nd

- CS 1412 PROG PRINC II
- MATH 1452 CALCULUS II
- PHYS 1408 PHYSICS I

3rd

- ECE 2372 MOD DIG SYS DES
- MATH 2450 CALCULUS III
- PHYS 2401 PHYSICS II

4th

- CS 2350 CMP ORG / ASM LNG
- MATH 2360 LINEAR ALGEBRA
- ENGR 2392 ENGR ETHICS

5th

- CS 2413 DATA STRUCTURES
- MATH 3342 PROB & STATS
- POLS 2302 AM PUBLIC POLICY

6th

- CS 2365 OBJ ORIENT PRG
- MATH 3383 THEORY AUTOMATA
- ENGL 2311 TECHNICAL WRITING

7th

- CS 3364 DES ANAL ALGOR
- CS 3365 SOFT ENGR I
- CORE CURR ELECTIVE*

8th

- CS 3361 CONC PROG LNG
- CS 3365 SOFT ENGR II
- CORE CURR ELECTIVE*

Foundational Curriculum Courses
- CS 1382 DISCR COMP STRUC
- POLS 1301 AM GOV ORG
- CS 1411 PROG PRINC I
- MATH 1451 CALCULUS I
- NAT SCI ELECTIVE***
- ENGL 1301 ESS COLL RHET

Computer Science Courses
- CS 1412 PROG PRINC II
- MATH 1452 CALCULUS II
- PHYS 1408 PHYSICS I
- ENGL 1302 ADV COLL RHET

Engineering
- ECE 2372 MOD DIG SYS DES
- MATH 2450 CALCULUS III
- PHYS 2401 PHYSICS II
- ENGL 2311 TECHNICAL WRITING

General Education Requirements
- CS 1382 DISCR COMP STRUC
- POLS 1301 AM GOV ORG
- CS 1411 PROG PRINC I
- MATH 1451 CALCULUS I
- NAT SCI ELECTIVE***
- ENGL 1301 ESS COLL RHET

Science Requirements
- CS 1412 PROG PRINC II
- MATH 1452 CALCULUS II
- PHYS 1408 PHYSICS I
- ENGL 1302 ADV COLL RHET

Math Requirements
- ECE 2372 MOD DIG SYS DES
- MATH 2450 CALCULUS III
- PHYS 2401 PHYSICS II
- ENGL 2311 TECHNICAL WRITING

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

* Courses needed to fulfill the university Core Curriculum requirements, including 6 hours of U.S. History, 3 hours of Creative Arts, 3 hours of Communication, and 3 hours of Social and Behavioral Sciences. The 3-hour Multicultural requirement must also be satisfied. This can be done by either completing an approved study abroad program, including assessment by the Study Abroad Office, or by taking a course from the multicultural list. If taking a multicultural course, it is recommended that the course also meet either the Creative Arts or Social and Behavioral Science core as it will then meet both core requirements. For details, consult the Core Curriculum requirements 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.

*** See Core Curriculum C. Life and Physical Science university approved list in the online HTML version of the academic catalog – any 4 hour lab and lecture except Physics.

^ 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.