COMPUTER SCIENCE - FULL-STACK WEB DEVELOPMENT (2023-2024)

Freshman FALL (15)	Freshman SPRING (16)	Sophomore FALL (15)	Sophomore SPRING (14)	Junior FALL (15)	Junior SPRING (15)	Senior FALL (15)	Senior SPRING (15)
CS 1400 Fundamentals of programming (3, F, Sp, Su)	**CS 1410** Object-Oriented Programming (3, F, Sp, Su)	**CS 2300** Discrete Mathematical Structures (3, F, Sp, Su)	**CS 2450** Software Engineering (3, F, Sp, Su)	**CS 3250 or CS 3260 or CS 3370** ★ (3, F, Sp)	**CS 3060** Operating Systems Theory ★ (3, F, Sp, Su)	**CS 3680** Mobile Device Programming ★ (3, F, Sp)	**CS 305G** Global Social & Ethical Issues in Computing ★ (3, F, Sp, Su)
ENGL 1010 Intro to Academic Writing (3, F, Sp, Su)	**CS 2810** Computer Organization & Architecture (3, F, Sp, Su)	**CS 2370** C++ Programming (3, F, Sp, Su)	**CS 2550** Web Programming I (3, F, Sp, Su)	**CS 3380** JavaScript Software Development ★ (3, F, Sp)	**CS 3240** Discrete Mathematical Structures II ★ (3, F, Sp)	**CS 4660** NoSQL Database Development ★ (3, F, Sp)	**CS 4880** Cloud Computing ★ (3, Sp)
MATH 1210 Calculus I (4, F, Sp, Su)	**ENGL 2010** Intermediate Writing (3, F, Sp, Su)	**CS 2420** Intro to Algorithms & Data Structures (3, F, Sp, Su)	**CS 2690** Computer Networks II (3, F, Sp)	**CS 3410** Human Factors in Software Development ★ (3, F, Sp)	**CS 3320** Numerical Software Development ★ (3, F, Sp, Su)	**CS 4690** Distributed Internet App Development ★ (3, F, Sp)	**CS 4900** Full Stack Web Senior Capstone ★ (3, F, Sp)
American Institutions (See WT) (3, F, Sp, Su)	**Physical Science** (See WT) (3, F, Sp, Su)	**CS 2600** Computer Networks I (3, F, Sp)	**Third Science** (See WT) (4, F, Sp, Su)	**CS 3100** Data Privacy and Security ★ (3, F, Sp)	**CS 3520** Database Theory ★ (3, F, Sp, Su)	**PHIL 2050** Ethics & Values (3, F, Sp, Su)	**CS ELECTIVE** (See WT) ★ (3, ?)
EXCS 1097 or HLTH 1100 (2, F, Sp, Su)	**STAT 2050** Intro to Statistical Methods (4, F, Sp, Su)	**Fine Arts** (See WT) (3, F, Sp, Su)	**Third Science Lab** (See WT) (1, F, Sp, Su)	**Biology** (See WT) (3, F, Sp, Su)	**CS 3660** Web Programming II ★ (3, F, Sp, Su)	**COMM 1020** Public Speaking (3, F, Sp, Su)	**COMM 2110** Interpersonal Communication (3, F, Sp, Su)

See WT

Pre- or corerequisite

MAT 1010 or MAT 1015 with B or better; CS 1030 or some programming experience

MATH 1050 or MATH 1055 with C+ or better

MAT 1010 Intermediate Algebra

MATH 1050 College Algebra

Students must complete these matriculation requirements before enrolling in any 3000- or 4000-level CS courses (except CS 305G):

- Pass CS 1400, CS 1410, CS 2300, and CS 2420 with a C+ grade or higher
- Pass MATH 1210 and ENGL 1010 with C grade or higher
- Each of these 6 matriculation classes can only be taken up to 2 times
- Have a cumulative GPA of 2.5 or higher

★UAS – University Advanced Standing requirement: Before students can Register for 3000 or 4000-level courses they must qualify for UAS by:

- Completing/transferring at least 24 college credits
- Having a cumulative GPA of 2.0 or higher
- Completing Quantitative Literacy (MAT 1030 or higher)
- Completing ENGL 2010 or equivalent

DISCLAIMER

This flowchart is not meant to replace appointments with your Academic Advisor. It is important to keep meeting with your Advisor, as this information changes frequently.

MATRICULATION