SOFTWARE DEVELOPMENT (2023-2024)

Freshman FALL (15)	Freshman SPRING (15)	Sophomore FALL (15)	Sophomore SPRING (15)	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 2370** C++ Programming (3, F, Sp, Su)	**CS 2550** Web Programming I (3, F, Sp, Su)	**CS 2450** Software Engineering (3, F, Sp, Su)	**CS 3060** Operating Systems Theory ★ (3, F, Sp, Su)	**CS 3660** Web Programming II ★ (3, F, Sp, Su)
ENGL 1010 Intro to Academic Writing (3, F, Sp, Su)	**ENGL 2010** Intermediate Writing (3, F, Sp, Su)	**PHIL 2050** Ethics & Values (3, F, Sp, Su)	**CS 2420** Intro to Algorithms & Data Structures (3, F, Sp, Su)	**CS 2810** Computer Organization & Architecture (3, F, Sp, Su)	**CS 2600** Computer Networks I (3, F, Sp)	**CS 3450** Principles and Patterns of Software Design ★ (3, F, Sp)	**CS 3410 or CS 3680 or CS 481R** ★ (3, F, Sp)
American Institutions (See WT) (3, F, Sp, Su)	**Humanities** (See WT) (3, F, Sp, Su)	**Physical Science** (See WT) (3, F, Sp, Su)	**Fine Arts** (See WT) (3, F, Sp, Su)	**CS 305G** Global Social & Ethical Issues in Computing ★ (3, F, Sp, Su)	**CS 3250, 3260, 3270, 3370, or 3380** ★ (3, F, Sp)	**CS 3520** Database Theory ★ (3, F, Sp, Su)	**ELECTIVE** (3000+ level CS) ★ (3, F, Sp)
MATH 1050 College Algebra (4, F, Sp, Su)	**Biology** (See WT) (3, F, Sp, Su)	**Social/ Behavioral** (See WT) (3, F, Sp, Su)	**Third Science** (See WT) (3, F, Sp, Su)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)
EXCS 1097 or HLTH 1100 (2, F, Sp, Su)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)	Extra-Major Specialization (3, ?)

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

MATH 1050 or MATH 1055 with C+ or better

See WT

See WT

See WT

MATRICULATION

MAT 1010 Intermediate 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.