SOFTWARE ENGINEERING (2026-2027)

Freshman FALL (16)	Freshman SPRING (16)	Sophomore FALL (14)	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 2450 Software Engineering (3, F, Sp, Su)	CS 2900 Data Privacy & Security (3, F, Sp)	CS 3060 Operating Systems Theory ★ (3, F, Sp, Su)	CS 4230 Software Testing & Quality Engineering ★ (3, F, Sp, Su)	CS 3050G Global Social & Ethical Issues in Computing ★ (3, F, Sp, Su)
CS 1380 Modern Programming Essentials (3, F, Sp, Su)	CS 2810 Computer Organization & Architecture (3, F, Sp, Su)	CS 2420 Intro to Algorithms & Data Structures (3, F, Sp, Su)	CS 2700 Causal Inference (3, F, Sp, Su)	CS 3240 Discrete Mathematical Structures II ★ (3, F, Sp)	CS 3450 Principles and Patterns of Software Design ★ (3, F, Sp) — Pre or Co-Req	CS 4400 Software Engineering II ★ (3, F, Sp)	ELECTIVE #3 (See WT) ★ (3, F, Sp) — See WT
ENGL 1010 Intro to Academic Writing (3, F, Sp, Su)	ENGL 2010 Intermediate Writing (3, F, Sp, Su)	CS 2600 Computer Networks I (3, F, Sp)	CS 3250, 3260, 3270, 3370, or 3380 ★ (3, F, Sp) — See WT	CS 3410 Human Factors in Software Development ★ (3, F, Sp)	CS 3310 Analysis of Algorithms ★ (3, F, Sp)	CS 4450 Analysis of Programming Languages ★ (3, F, Sp)	ELECTIVE #4 (See WT) ★ (3, F, Sp) — See WT
MATH 1210 Calculus I (4, F, Sp, Su)	MATH 2270 Linear Algebra (3, F, Sp, Su)	Core Science (See WT) (4, F, Sp, Su)	PPCG (See WT) (3, F, Sp, Su)	CS 3520 Database Theory ★ (3, F, Sp, Su) — See WT	ELECTIVE #1 (See WT) ★ (3, F, Sp) — See WT	ELECTIVE #2 (See WT) ★ (3, F, Sp)	ELECTIVE #5 (See WT) ★ (3, F, Sp) — See WT
American Institutions (See WT) (3, F, Sp, Su)	STAT 2050 Intro to Statistical Methods (4, F, Sp, Su)	Core Science Lab (See WT) (1, F, Sp, Su)	Physical Science (See WT) (3, F, Sp, Su)	Humanities (See WT) (3, F, Sp, Su)	Biology (See WT) (3, F, Sp, Su)	Fine Arts (See WT) ★ (3, F, Sp, Su)	Social/ Behavioral (See WT) (3, F, Sp, Su)

See red note at bottom

MATH 1050 College Algebra

For CS 1400: Understanding of math at least through high school algebra & trigonometry
For CS 1410 & 1380: Understanding of math at least through college algebra

Option 1: CS 1400 & CS 1410
Option 2: CS 1420 & 1 CS elective not already required. To enroll in CS 1420 students must pass the entrance exam located in room CS 520.

Students must complete these matriculation requirements before enrolling in any 3000- or 4000-level CS courses (except CS 305G):
- Pass ((CS 1400 and CS 1410) or (CS 1420)), CS 2300, and CS 2420 with a C+ grade or higher
- Pass MATH 1210 and ENGL 1010 with a C grade or higher
- Each of these 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 at least 24 college credits
- Having a cumulative 2.0 GPA or higher
- Completing MAT 1030 or higher
- Completing ENGL 2010

Arrows indicate prerequisites.
WT = Wolverine Track.

DISCLAIMER – This flowchart is not meant to replace appointments with your Academic Advisor. It is important to meet with your Advisor regularly.

WORKING DOCUMENT