SOFTWARE ENGINEERING (2023-2024)

Freshman FALL 15	Freshman SPRING 16	Sophomore FALL 15	Sophomore SPRING 14	Junior FALL 15	Junior SPRING 12	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 3100** Data Privacy and Security ★ — 3 — F, Sp	**CS 3060** Operating Systems Theory ★ — 3 — F, Sp, Su	**CS 4230** Software Testing & Quality Engineering — 3 — Fa	**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	**ELECTIVE #1:** CS 2550 Web Programming I — 3 — F, Sp, Su	**CS 3240** Discrete Mathematical Structures II ★ — 3 — F, Sp	**CS 3450** Principles and Patterns of Software Design ★ — 3 — F, Sp	**CS 4400** Software Engineering II — 3 — Fa	**CS 3320** Numerical Software Development ★ — 3 — F, Sp, Su
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	**ELECTIVE #2** (See WT) ★ — 3 — F, Sp	**CS 4450** Analysis of Programming Languages ★ — 3 — F, Sp	**CS 4550** Software Engineering III ★ — 3 — 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 3250, 3260, 3270, 3370, or 3380** ★ — 3 — F, Sp	**Biology** (See WT) — 3 — F, Sp, Su	**ELECTIVE #3** (See WT) ★ — 3 — ?	**Fine Arts** (See WT) — 3 — F, Sp, Su
EXCS 1097 or **HLTH 1100** — 2 — F, Sp, Su	**STAT 2050** Intro to Statistical Methods — 4 — F, Sp, Su	**COMM 1020** Public Speaking — 3 — F, Sp, Su	**Third Science Lab** (See WT) — 1 — F, Sp, Su	**CS 3520** Database Theory ★ — 3 — F, Sp, Su		**PHIL 2050** Ethics & Values — 3 — F, Sp, Su	**COMM 2110** Interpersonal Communication — 3 — F, Sp, Su

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

MATH 1050 or MATH 1055 with C+ or better

Pre- or corequisite

See WT

MAT 1010 Intermediate Algebra

MATH 1050 College Algebra
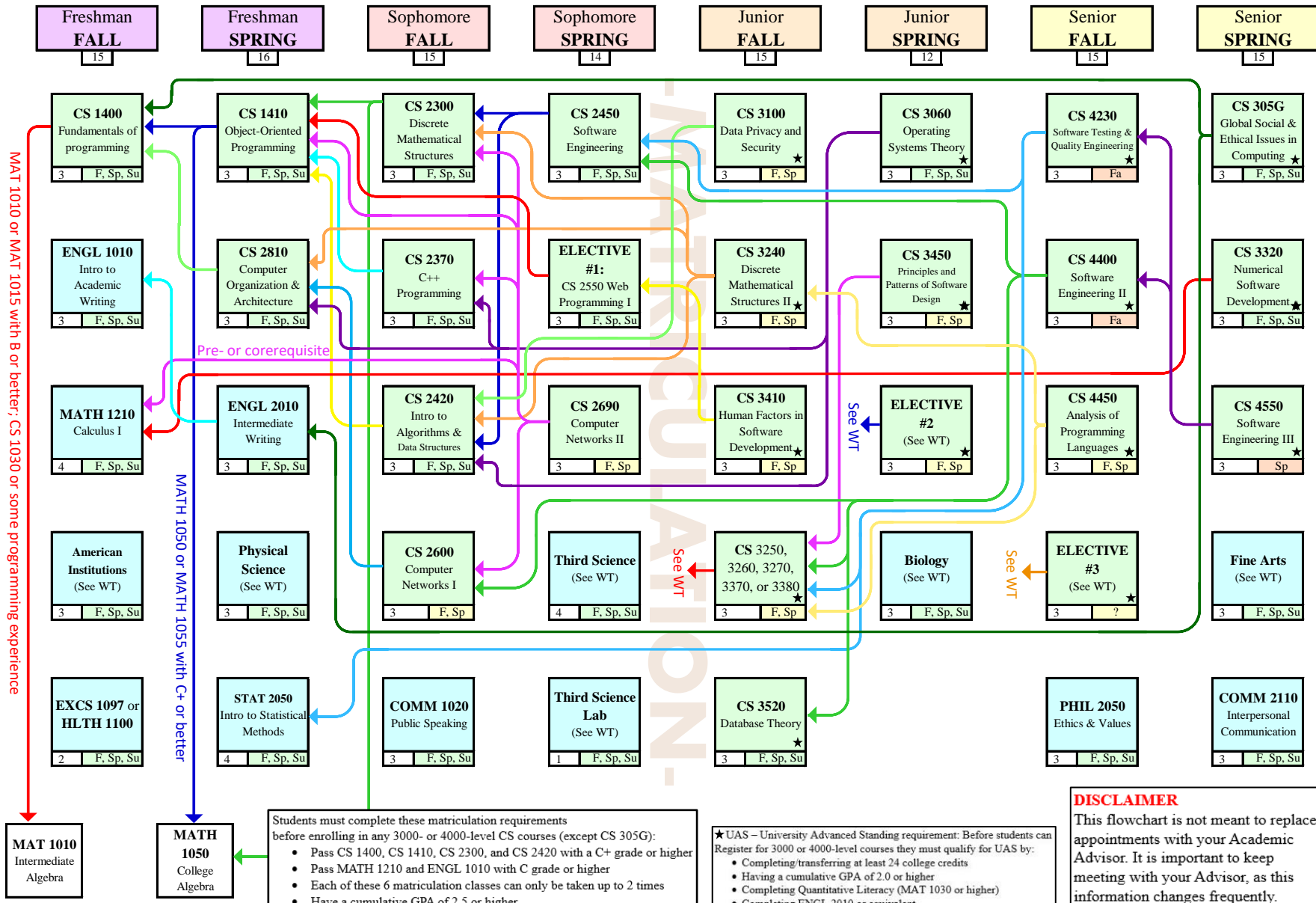
Students must complete these matriculation requirements before enrolling in any 3000- or 4000-level CS courses (except CS 305G):
- Pass CS 1400, CS 1410, CS 2300, and CS 2420 with a C+ grade or higher
- Pass MATH 1210 and ENGL 1010 with C grade or higher
- Each of these 6 matriculation classes can only 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.