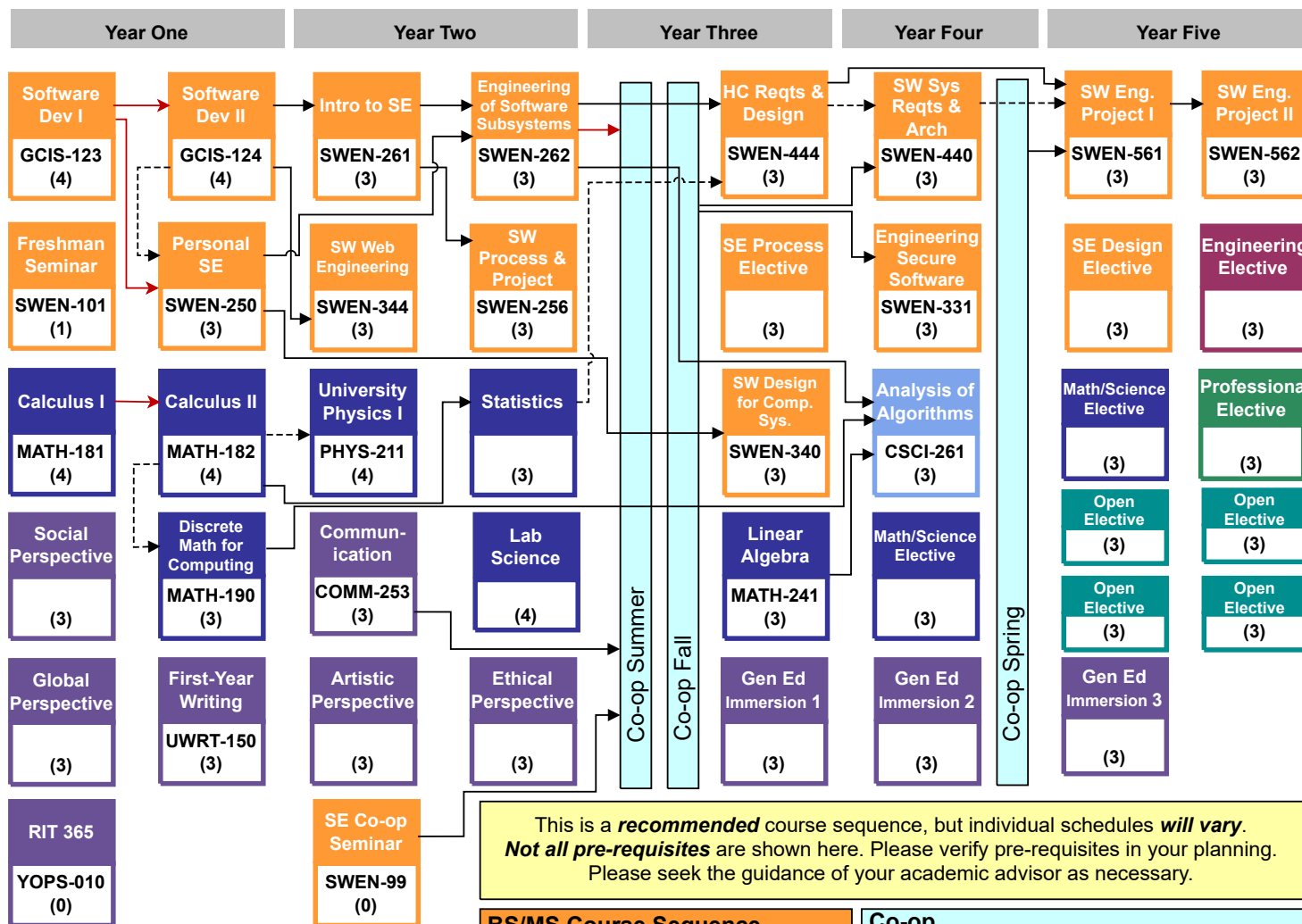


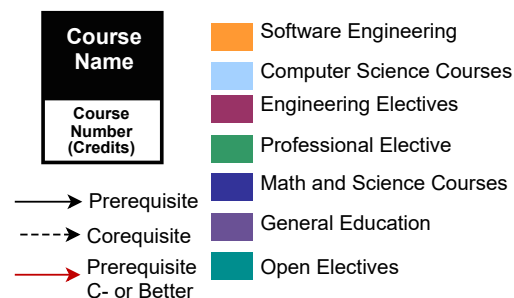
Department of Software Engineering

BS UNDERGRADUATE CURRICULUM

For students starting Fall 2025, i.e. 2251
v15.0, last updated Aug 5, 2025



Key



BS/MS Course Sequence

Tracks for BS-SE undergrads are:

- MS in Software Engineering
- MS in Computer Science
- MS in Computing Security
- MBA

Two grad courses may double count toward your BS. Many CSCI and CSEC courses qualify as Engineering Electives, otherwise Open Electives are used. See companion flow charts for more.

Courses with "C- or Better"

- Calculus sequence
- GCIS-123
- SWEN-262

Co-op

Two semesters and one summer. You must fulfill this requirement before registering for Senior Project (SWEN-561). You are responsible for coordinating academic terms within your course schedule to complete co-ops. Prerequisites include:

- Engineering of Software Subsystems (SWEN-262 with C- or better)
- Communication (COMM-253)
- SE Co-op Seminar (SWEN-99)

The process for finding and registering co-op can be found at this QR code.



Software Design & Process Electives

Software Engineering elective courses are designated as either "design" or "process" electives. You are required to take one of each.

Engineering Elective Requirement

Generally, approved electives include:

- Software Engineering electives
- Many courses from KGCOC
- Many courses from Computer Science
- Some courses from Computing Security
- Some courses from School of Information

Professional Elective Requirement

This course must be either another Engineering Elective, or certain courses from Saunders College of Business.

Math/Science Electives

Generally, these are electives from other math and natural science majors.

Statistics

STAT-205 Applied Statistics or MATH-251 Probability and Statistics

Lab Science

Choices include BIOG-101/103, BIOG-102/104, BIOL-101/103, BIOL-102/104, CHMG-141/145, CHMG-131/145, or PHYS-212. Note that PHYS-212 requires a C- or better earned in PHYS-211 or 211A.

General Education Framework

Perspectives: Complete a course in each of the *Social*, *Artistic*, *Ethical*, and *Global* perspective categories. The other three perspectives are specified by required courses in the SE program.
Immersion: Select an Immersion approved in the General Education Framework. An immersion consists of three pre-defined upper level courses focusing on one topic area.

Wellness Requirement

Complete two wellness courses with different course numbers. Search for courses with an activity attribute. (Not shown in flow chart.)

Official Curriculum

This site has course descriptions, lists of approved electives, and pre-reqs from the registrar

