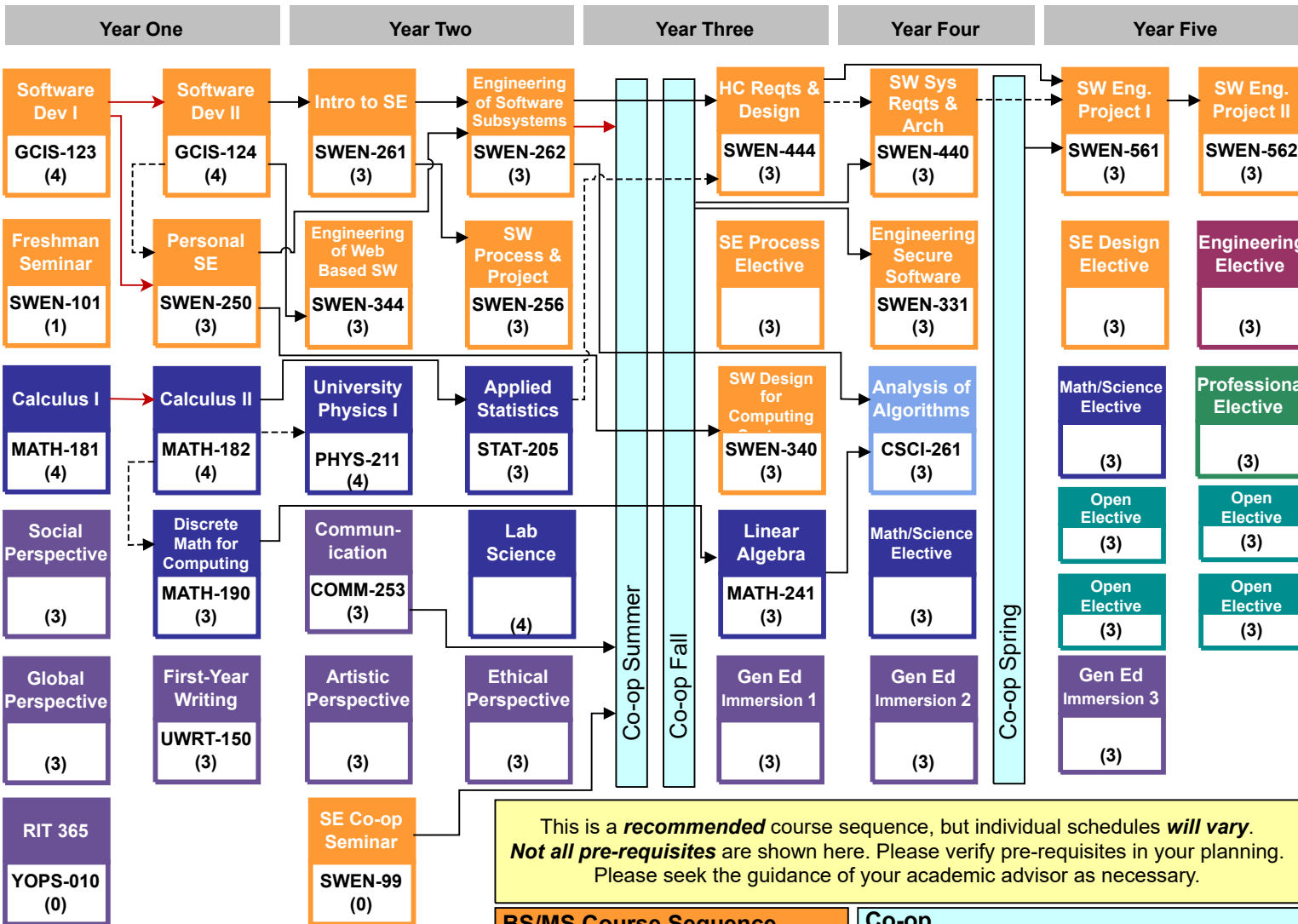


Department of Software Engineering

BS UNDERGRADUATE CURRICULUM

For students starting Fall 2023, i.e. 2231
v13.4, last updated Oct 4, 2023



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 KGC OE
- 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.

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.)

Courses with “C- or Better”

- Calculus sequence
- Introductory programming sequence SWEN-262

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

This is a **recommended** course sequence, but individual schedules **will vary**.
Not all pre-requisites are shown here. Please verify pre-requisites in your planning.
Please seek the guidance of your academic advisor as necessary.

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 count toward your BS. Many CSCI and CSEC courses qualify as Engineering Electives, otherwise Open Electives are used.

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.



Key

Course Name	Software Engineering
Course Number (Credits)	Computer Science Courses
	Engineering Electives
	Professional Elective
	Math and Science Courses
	General Education
	Open Electives

→ Prerequisite
 - - - Corequisite
 → Prerequisite C- or Better