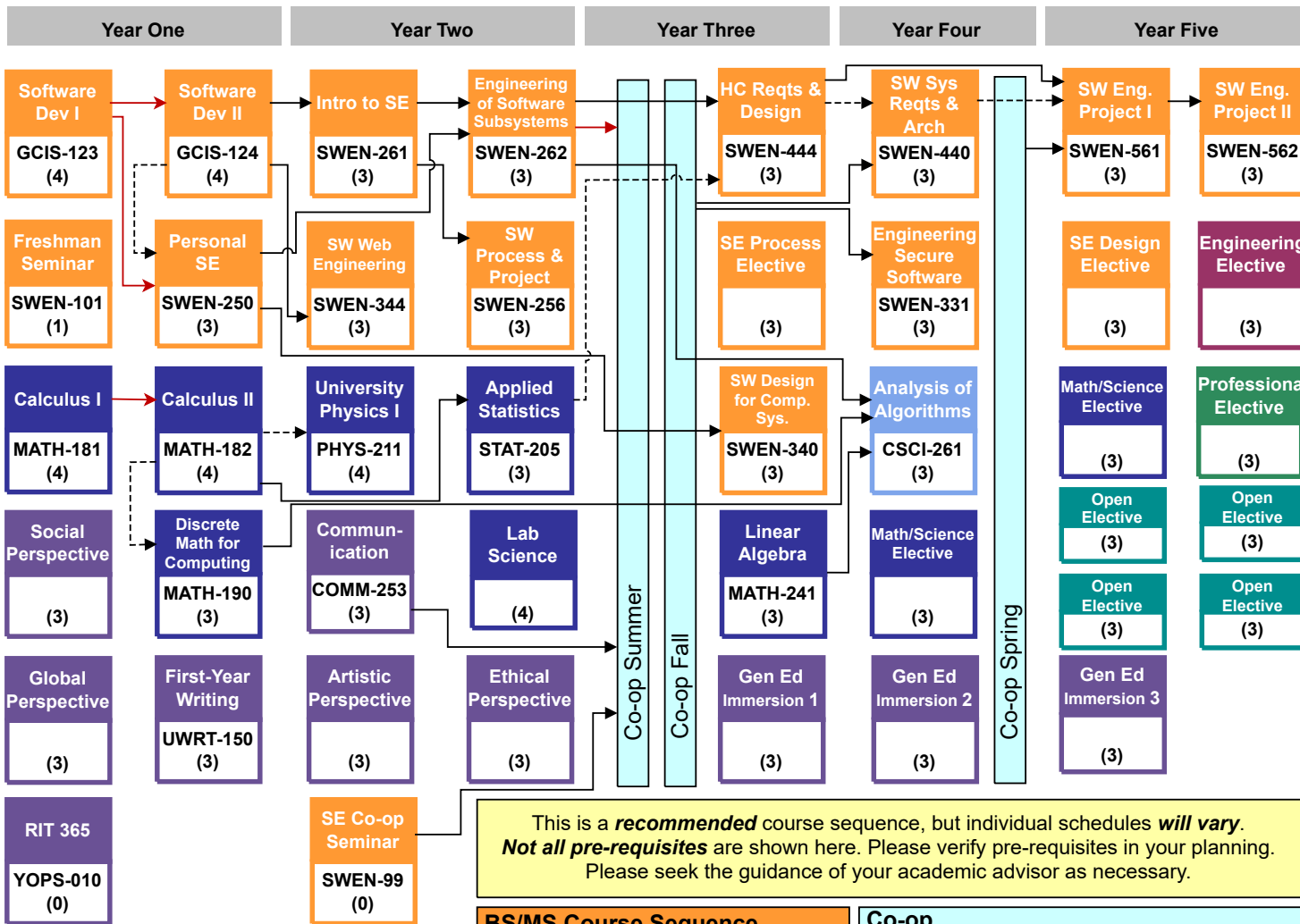


# Department of Software Engineering

## BS UNDERGRADUATE CURRICULUM

For students starting Fall 2024, i.e. 2241  
v14.0, last updated Aug 7, 2024



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.

### Key

	Prerequisite
	Corequisite
	Prerequisite C- or Better

	Software Engineering
	Computer Science Courses
	Engineering Electives
	Professional Elective
	Math and Science Courses
	General Education
	Open Electives

### 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 KGCOE
- 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

MATH-251 is also acceptable instead of STAT-205

### 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