Department of Software Engineering
UNDERGRADUATE CURRICULUM

Course Sequence

Year One	Year Two	Year Three	Year Four	Year Five
Freshman Seminar — SWEN-101 (1)	Intro to SE — SWEN-261 (3)	HC Reqts & Design — SWEN-444 (3)	SW Sys Reqts & Arch — SWEN-440 (3)	SW Eng. Project I — SWEN-561 (3)
Personal SE — SWEN-250 (3)	Engineering of Software Subsystems — SWEN-262 (3)	SE Process Elective (3)	Engineering Secure Software — SWEN-331 (3)	SW Eng. Project II — SWEN-562 (3)
Software Dev I — SWEN-123 (4)	SW Process & Project Management — SWEN-256 (3)	Analysis of Algorithms — CSCI-261 (3)	SW Design for Computing Systems — SWEN-340 (3)	SE Design Elective (3)
Software Dev II — SWEN-124 (4)	Engineering of Web Based SW Systems — SWEN-344 (3)	Linear Algebra — MATH-241 (3)	Math/Science Elective (3)	Professional Elective (3)
Proj-Based Calculus I — MATH-181 (4)	University Physics I — PHYS-211 (4)	Gen Ed Immersion 1 (3)	Gen Ed Immersion 2 (3)	Math/Science Elective (3)
Proj-Based Calculus II — MATH-182 (4)	University Physics II — PHYS-212 (4)	Co-op Fall	Co-op Spring	Engineering Elective (3)
Gen Ed Perspective 1 (3)	Discrete Math for Computing — MATH-190 (3)		Co-op Summer	Free Elective (3)
Gen Ed Perspective 2 (3)	Communication — COMM-253 (3)			Free Elective (3)
First-Year Writing — UWRT-150 (3)	Applied Statistics — STAT-205 (3)			Free Elective (3)
RIT 365 — YOPS-010 (0)	Gen Ed Perspective 3 (3)			Free Elective (3)
	Gen Ed Perspective 4 (3)			Gen Ed Immersion 3 (3)
	SE Co-op Seminar — SWEN-099 (0)			

> *This is a recommended course sequence. Individual schedules may vary. You are responsible for verifying course offerings and prerequisites. Please seek the guidance of your academic advisor as necessary. For additional information refer to the department's website (www.se.rit.edu).*

Key

Course Name	Course Number (Credits)

- **Prerequisite** → (solid black arrow)
- **Corequisite** ⇢ (dashed black arrow)
- **Prerequisite C- or Better** → (red arrow)

Color legend:
- Software Engineering Courses (orange)
- Computer Science Courses (light blue)
- Engineering Electives (maroon)
- Professional Elective (green)
- Math and Science Courses (dark blue)
- General Education (purple)
- Free Electives (teal)

Courses with "C- or Better" Grading Requirements

Prerequisite courses indicated with a **RED** arrow require a C- or better to progress. Similar restrictions may apply for elective courses.(See prerequisites listed on SIS).
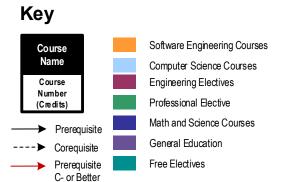
- Calculus sequence
- Computer Science sequence
- University Physics sequence
- Engineering of Software Subsystems (SWEN-262)

Co-op

The co-op requirement is a minimum of 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 for co-op include:

- Engineering of Software Subsystems (SWEN-262 with C- or better)
- Communication (COMM-253)
- SE Co-op Seminar (SWEN-099)

Software Design & Process Electives

Software Engineering elective courses are designated as "design" or "process" electives. You are required to take one of each. For an up-to-date list of elective courses see the department website. Prerequisites vary by course.

Professional Elective Requirement

This course must be either an Engineering Elective or one of the Business Elective courses specified on the department website.

Engineering Elective Requirement

Take one course from any of the following:

- Software Engineering electives
- Course offered by KGCOE (*see restrictions on department website and check course with your advisor before registering*)
- Select Computer Science courses (*see course listing on department website*)

Prerequisites may apply.

Math/Science Electives

These two courses must be offered by a program in the College of Science that is either a required course or valid elective course in that program. See department website for recommendations and approval process.

General Education Framework

This curriculum satisfies RIT's General Education Framework requirements. See the RIT website for more details.

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 Education Requirement

Complete two different wellness classes with distinct course numbers. Details and a list of courses can be found on SIS via the "activity" attribute.