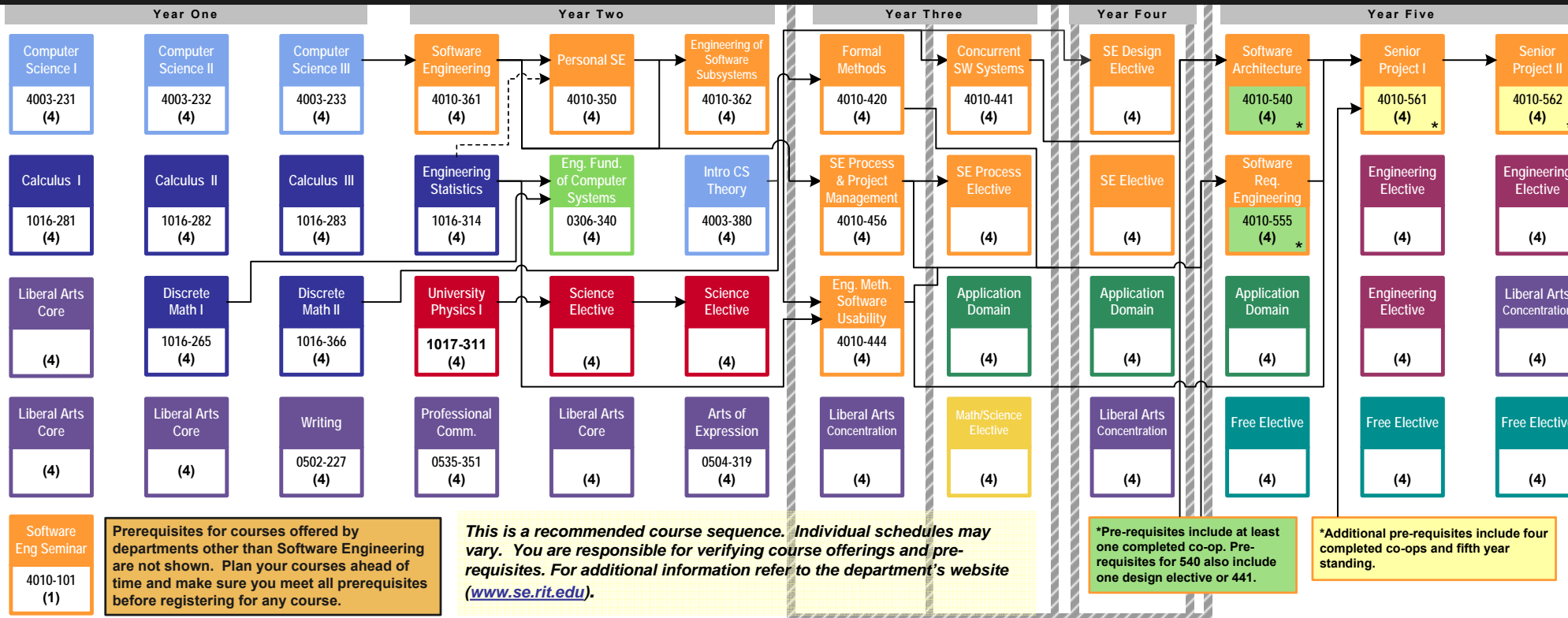


Department of Software Engineering

UNDERGRADUATE CURRICULUM

Course Sequence v 5.1
Last Updated: August 06, 2008



Software Design and Process Electives

Software engineering elective courses are designated as either "design" or "process" electives. You are required to take one of each. For an up-to-date list of elective courses see the department's website.

Engineering Elective Requirement

Take three courses from any of the disciplines below:

- Computer engineering
- Computer science (see course listing on website)
- Industrial & systems engineering
- Mechanical engineering
- Microelectronic engineering
- Software engineering

Courses need not be from the same discipline; pre-requisites apply.

Application Domain Requirement

Choose an Application Domain – suggested fields include:

- Artificial intelligence
- Bioinformatics
- Business applications
- Computational mathematics
- Computer engineering
- Computer security
- Economics
- Entrepreneurship
- Industrial & systems engineering
- Interactive entertainment
- Public policy
- Scientific & engineering computing
- Statistics
- Usability

Alternate application domains require department approval. Applicable courses and additional information can be found on the department's website.

Prerequisites for courses offered by departments other than Software Engineering are not shown. Plan your courses ahead of time and make sure you meet all prerequisites before registering for any course.

This is a recommended course sequence. Individual schedules may vary. You are responsible for verifying course offerings and pre-requisites. For additional information refer to the department's website (www.se.rit.edu).

*Pre-requisites include at least one completed co-op. Pre-requisites for 540 also include one design elective or 441.

*Additional pre-requisites include four completed co-ops and fifth year standing.

First Year Experience (1105-051) (1) → First Year Experience (1105-052) (1)

Tracks

A track of study centers around an application domain, a minor, or both; it provides suggestions for related elective courses in Software Engineering and other programs of study. More information can be found in the department's website.

Wellness Education Requirement

Complete two different wellness activity courses.

Details, along with a list of course offerings, can be found on SIS under "Schedule of Courses of the Center for Intercollegiate Athletics and Recreation".

Co-op

Complete at least four co-op blocks (10 weeks each) before registering for Senior Project (4010-561). You are responsible for coordinating appropriate quarters within your course schedule to complete co-ops; pre-requisites for co-op are Engineering of Software Subsystems (4010-362) and Personal SE (4010-350).

Key

- Software Engineering Courses
- Computer Science Courses
- Math Courses
- Application Domain Electives
- Engineering Electives
- Science Electives
- Liberal Arts Courses
- Free Electives
- RIT Required Courses
- Computer Engineering Courses

Course Name
Course Number (Credits)

→ Prerequisite
--- Corequisite

Science Elective Requirement

Take any two courses:

- 1001-201 General Biology I + lab (1001-205)
- 1001-202 General Biology II + lab (1001-206)
- 1011-215 General and Analytical Chemistry I + Lab (1011-205)
- 1011-216 General and Analytical Chemistry II + Lab (1011-206)
- 1017-312 University Physics II
- 1017-313 University Physics III

Math/Science Elective Requirement

Take one Math/Science Elective course from the list below:

- 1001-203 General Biology III + Lab (1001-207)
- 1011-217 Gen. and Analyt. Chem. III + Lab (1011-207)
- 1016-306 Differential Equations
- 1016-331 Matrix Algebra
- 1016-365 Combinational Math
- 1016-467 Theory of Graphs & Networks

Liberal Arts Requirements

Take both:

- 0502-227 Writing
- 0504-319 Arts of Expression
- 0535-351 Professional Communications

Select two of the following Humanities courses from different areas:

- 0504-2xx Literature
- 0505-2xx Fine Arts
- 0507-3xx History
- 0508-2xx Science, Technology, Values
- 0509-2xx Philosophy
- 0509-2xx Ethics

Select two of the following Social Sciences courses from different areas:

- 0510-2xx Cultural Anthropology
- 0511-2xx Microeconomics
- 0513-2xx Political Science
- 0514-2xx Psychology
- 0515-2xx Sociology

Liberal Arts Concentration: Select a concentration discipline approved by the College of Liberal Arts. Upper-division students are required to complete three 400- or 500-level courses in this concentration.

Ethics / Economics Requirement

Take one course from each of the disciplines below; pre-requisites apply:

Course	Applied as:
0102-438 Business Ethics	App. Dom.
0509-211 Ethics	LA Hum.
0509-217 Ethics in the Info Age	LA Hum.
0509-445 Social & Political Philosophy	LA Hum.
0509-447 Contemp. Moral Problems	LA Hum.
0509-451 Professional Ethics	LA Hum.
0101-301 Financial Accounting	App. Dom.
0101-494 Cost Accounting	App. Dom.
0303-520 Engineering Economy	Eng. Elect.
0511-211 Prin. of Microeconomics	LA Soc. Sci.

All courses may also be applied as Free Elective credit.