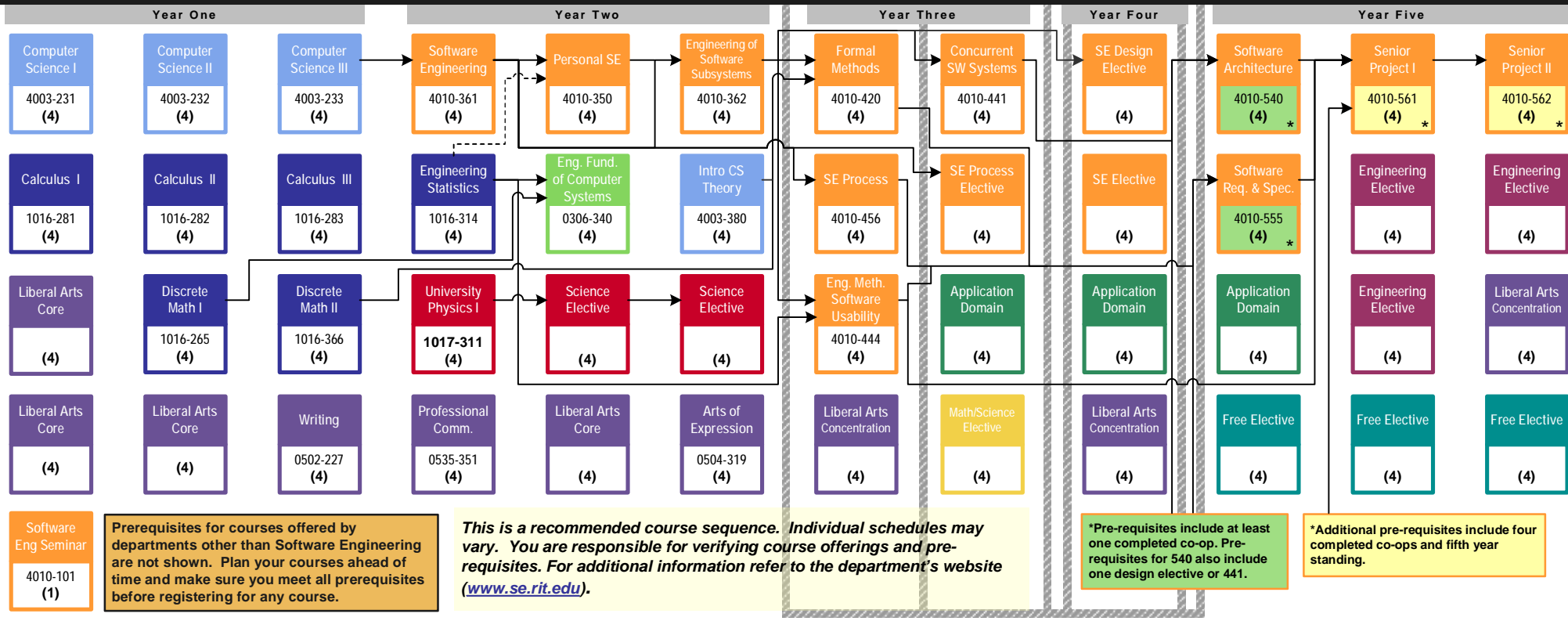


Department of Software Engineering

UNDERGRADUATE CURRICULUM

Course Sequence v 5.0
Last Updated: July 11, 2007



- Software Design Electives**
- 4010-442 Principles of Distributed Software Systems
 - 4010-443 Principles of Information Systems Design
 - 4010-461 Real-Time & Embedded Systems
 - 4010-549 Software Design Seminar
- Software Process Electives**
- 4010-450 Software Process & Product Metrics
 - 4010-452 Software Verification & Validation
 - 4010-559 Software Process Seminar

- 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
 - Business Applications (Economics, Entrepreneurship, Finance, Management, Marketing)
 - Cognitive Science and Human-Machine Interaction
 - Computer Engineering
 - Computer Graphics
 - Foundations of entertainment design
 - Industrial and Systems Engineering
 - Information assurance
 - Mechanical Engineering
 - Scientific and Engineering Computing
- Alternate application domains require department approval. Applicable courses and additional information can be found on the department's website.

Software Eng Seminar
4010-101 (1)

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 Number | Course Name | 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.