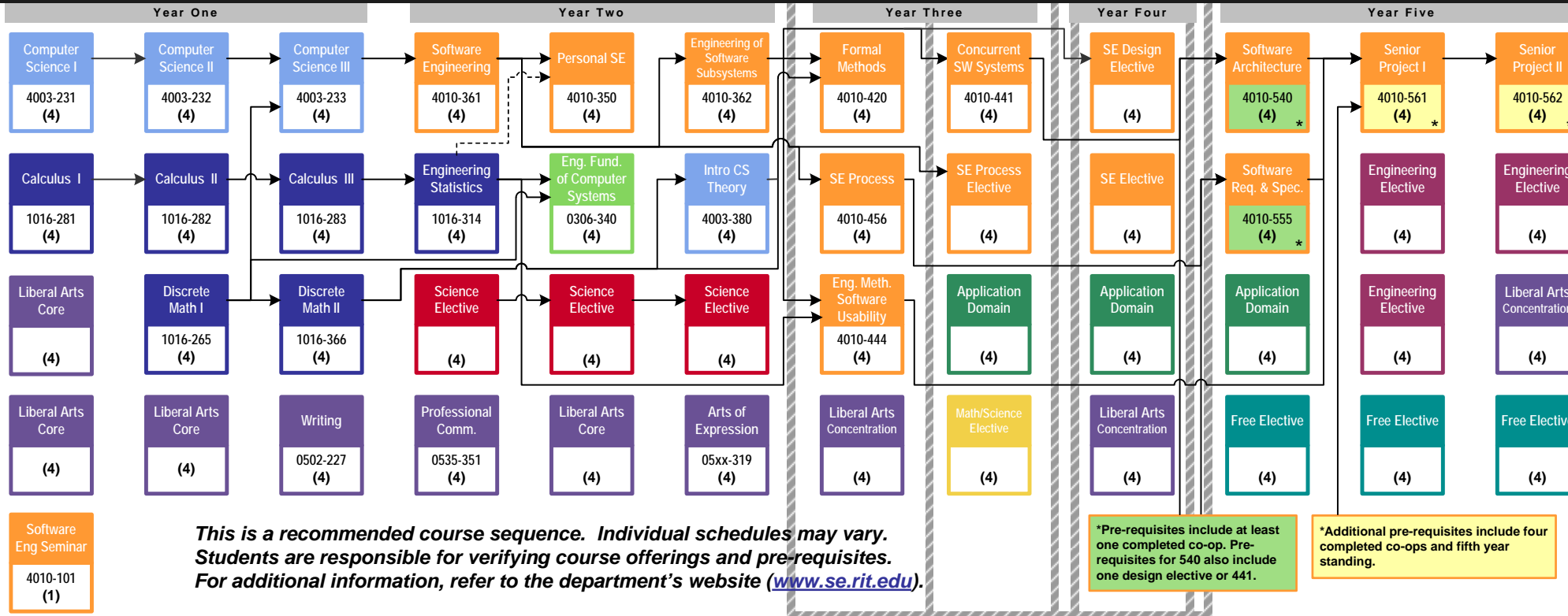


Department of Software Engineering

UNDERGRADUATE CURRICULUM

Course Sequence v 4.0
Last Updated: July 20, 2006



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

- 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:
- Software Engineering
 - Industrial & Systems Engineering
 - Mechanical Engineering
 - Microelectronic Engineering
 - Computer Engineering
 - Quality & Applied Statistics
- Courses need not be from the same discipline; pre-requisites apply.

- Application Domain Requirement**
- Choose an Application Domain--suggested fields include:
- Artificial Intelligence
 - Commercial & Management Applications
 - Computer Engineering
 - Computer Games
 - Computer Graphics
 - Communications & Networks
 - Embedded Systems
 - Imaging & Publishing Technology
 - Industrial & Systems Engineering
 - Mechanical Engineering
 - Microelectronic Engineering
 - Scientific & Engineering Computing
- Alternate application domains require department approval. Applicable courses and additional information can be found on the department's website.

Wellness Education Requirement

Complete two different wellness activity courses.

Details, along with a list of course offerings, can be found in the Center for Human Performance section of the Schedule of Courses catalogue.

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).

*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.

Key

- Software Engineering Courses (orange)
- Computer Science Courses (light blue)
- Math Courses (dark blue)
- Application Domain Electives (green)
- Engineering Electives (purple)
- Science Electives (red)
- Liberal Arts Courses (dark purple)
- Free Electives (teal)
- RIT Required Courses (grey)
- Computer Engineering Courses (light green)

Course Name: [Box with Course Name and Credits]

Prerequisite: [Solid arrow]

Corequisite: [Dashed arrow]

- Science Elective Requirement**
- Take one three-course Science sequence from the list below:
- 1001-201 General Biology I + lab (1001-205)
 - 1001-202 General Biology II + lab (1001-206)
 - 1001-203 General Biology III + lab (1001-207)
 - 1011-208 College Chemistry & Workshop
 - 1011-272 Chemistry of Water & Wastewater + Lab (1011-276)
 - 1011-273 Chemistry of Materials + Lab (1011-277)
 - 1017-311 University Physics I
 - 1017-312 University Physics II
 - 1017-313 University Physics III

- Math/Science Elective Requirement**
- Take one Math/Science Elective course from the list below:
- 1001-201 General Biology
 - 1011-208 College Chemistry
 - 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
 - 05xx-319 Arts of Expression
- 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
- 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 | Discipline | 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.