

Software Engineering at RIT

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What is Software Engineering?

- Software Engineering is more than programming
 - Build high-quality, large-scale software systems on time and on budget
 - Full life-cycle: Requirements, design, construction, test, deploy, support, maintain

Why Software Engineering at RIT?

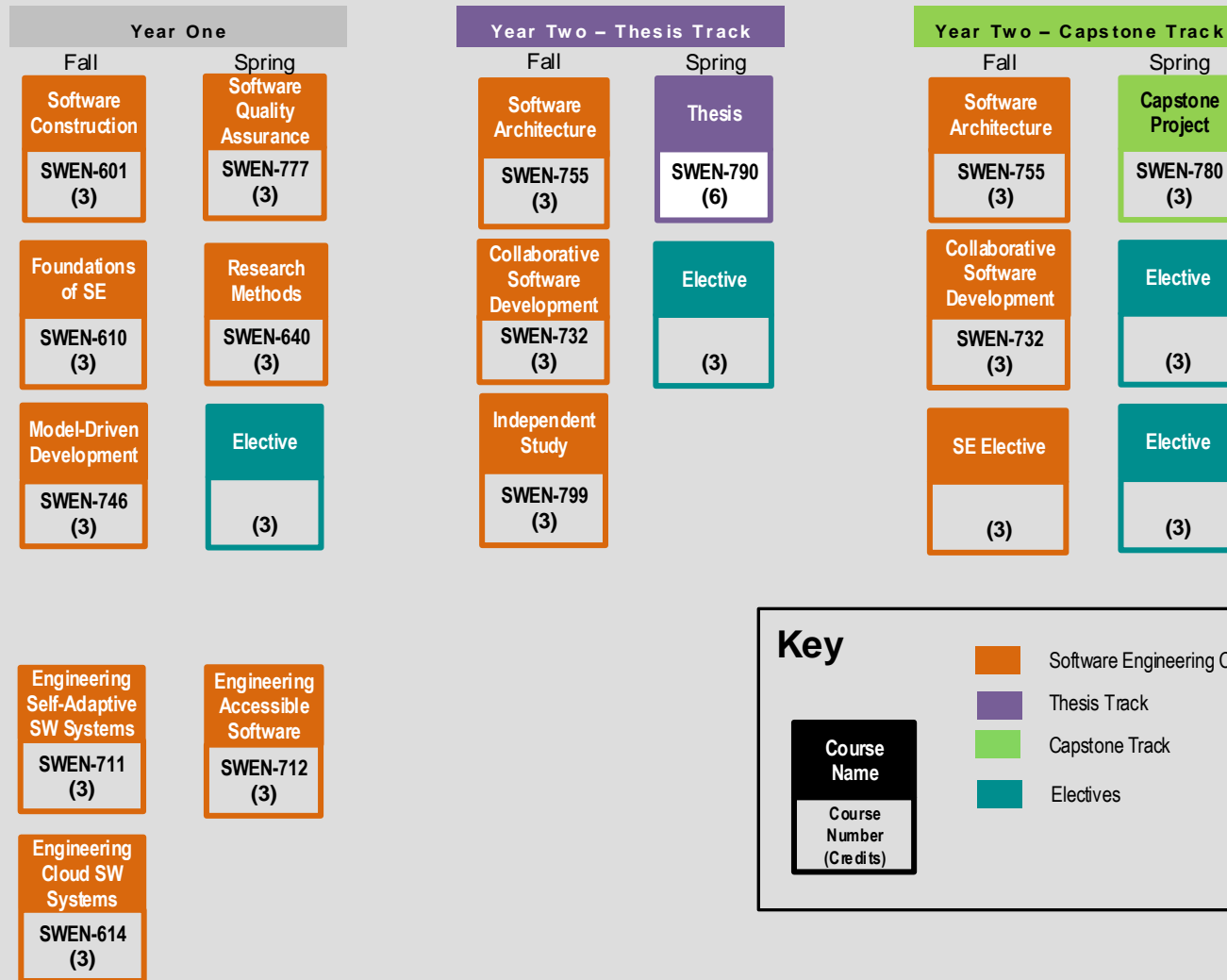
- High job placement and high salaries
 - 100% Outcome rate of graduates
 - Ranked 25th by LinkedIn for securing “desirable software engineering jobs”
 - \$83k median first-year salary of graduates
 - Many make more than \$90k
 - Sample companies: Adobe, Aruba (a Hewlett Packard Enterprise company), Ayco (A Goldman Sachs Company), Forbes Media, HubSpot, IBM, MathWorks, Oracle, TIBCO, etc.
 - Excellent co-operative education/internship opportunities

Why Software Engineering at RIT?

- Core courses and electives let you specialize
 - Data Science: Foundations of Data Science, Software Engineering for Data Science, Applied Data Science, Engineering Cloud Software Systems, etc.
 - Full-Stack Web Development: Software Architecture, Client Design and Development, Server Design and Development, Secure Web Application Development
 - And many other combinations
- Financial Support
 - Tuition scholarship, Graduate assistant, Course assistant, Lab assistant, On-campus work, Co-op/intern

Software Engineering Curriculum

Hands-on: Team projects, Small classes, Co-op/Intern



Key

- Software Engineering Courses
- Thesis Track
- Capstone Track
- Electives

Course Name
Course Number (Credits)

SE and DS Research Areas – Broad View

Faculty	Research Areas
Andy Meneely	Engineering Secure Software Systems Empirical Software Engineering
Dan Krutz	Mobile Security/Privacy Mining Software Repositories Software Engineering Education
Mehdi Mirakhorli	Application of Machine Learning to Software Architecture Software Traceability and Software Security
Mohamed Wiem Mkouer	Search-based Software Engineering Software Refactoring and Re-modularization Bug Management
Naveen Sharma	Self-* and adaptive software system for immune/resilient infrastructure Urban data science and software applications
Scott Hawker	Software Process Mining Model-Driven Software Development
Christian Newman	Source code analysis and transformation
Travis Desell	Data Science High-performance & distributed computing Machine learning
Mihail Barbosu	Mathematics Statistics
Robert Parody	Applied Statistics
Qi Yu	Machine Learning
Zhe Yu	Machine Learning Information Retrieval Human-Centered Software Engineering