

Programs of Study Comparison

| Year | Term | Computer Science (non-option) Program | Software Engineering Option |
|------|--------|---|---|
| 1 | Fall | CIS-180 Object-oriented Programming I MTH-153 Calculus I ENL-101 English Composition EGR-111 Intro to Engineering and Computing | CIS-180 Object-oriented Programming I MTH-153 Calculus I ENL-101 English Composition EGR-111 Intro to Engineering and Computing |
| | Spring | CIS-181 Object-oriented Programming MTH-154 Calculus II ENL-102 English Literature University Studies Elective | CIS-181 Object-oriented Programming MTH-154 Calculus II ENL-102 English Literature University Studies Elective |
| 2 | Fall | CIS-190 Introduction to Procedural Programming CIS-272 Introduction to Computing Systems MTH-181 Discrete Structures I Laboratory Science Elective I | CIS-190 Introduction to Procedural Programming CIS-272 Introduction to Computing Systems MTH-181 Discrete Structures I Laboratory Science Elective I |
| | Spring | <i>CIS-273 Computer Organization and Design</i> CIS-280 Software Specification and Design MTH-182 Discrete Structures II Laboratory Science Elective II | <i>CIS-264 Software Quality Assurance and Testing</i> CIS-280 Software Specification and Design MTH-182 Discrete Structures II Laboratory Science Elective II |
| 3 | Fall | CIS-360 Algorithms and Data Structures CIS-381 Social & Ethical Aspects of Computing MTH-331 Probability ENL-266 Technical Communications University Studies Elective | CIS-360 Algorithms and Data Structures CIS-381 Social and Ethical Aspects of Computing <i>CIS-440 Software Process and Project Management</i> MTH-331 Probability ENL-266 Technical Communications |
| | Spring | <i>CIS-361 Models of Computation</i> <i>CIS-370 Design of Operating Systems</i> CIS-362 Empirical Methods for Computer Science Science Elective University Studies Elective | <i>CIS-340 Large Software Systems</i> CIS-362 Empirical Methods for Computer Science CIS-381 Social and Ethical Aspects of Computing Science Elective University Studies Elective University Studies Elective |
| 4 | Fall | CIS-498 Software Engineering Project I CIS-xxx CS Technical Elective CIS-xxx CS Technical Elective University Studies Elective University Studies Elective | CIS-498 Software Engineering Project I <i>CIS-461 Formal Methods in Software Engineering</i> CIS-xxx SWE Technical Elective CIS-xxx SWE Technical Elective University Studies Elective |
| | Spring | CIS-499 Software Engineering Project II <i>CIS-481 Parallel and Distributed Software Systems</i> CIS-xxx CS Technical Elective CIS-xxx CS Technical Elective Free Elective | CIS-499 Software Engineering Project II CIS-xxx SWE Technical Elective CIS-xxx SWE Technical Elective University Studies Elective Free Elective |