

Accelerated Undergraduate/Graduate (BS/MS) Dual Degree Program in Computer Science (BS) and Software Engineering (MS)

The BS degree in Computer Science requires 126 semester hours and the MS degree in Software Engineering requires 36 semester hours. Undergraduate Computer Science majors who enter the accelerated BS in Computer Science/MS in Software Engineering dual degree program are **permitted to double count up to 9 semester hours of overlapping courses**. The overlapping hours all come from graduate courses which fulfill graduate program requirements and which are also used to satisfy credit hour requirements for the baccalaureate degree. Specifically, three graduate level Software Engineering courses may be chosen to fulfill Free Electives required for the BS degree in Computer Science. Other than the 9 semester hours of courses that students may double count toward their BS degree in Computer Science and the MS degree in Software Engineering, students complete all other BS degree requirements, including co-op and wellness.

Undergraduate students with the proper prerequisites are permitted and encouraged to take graduate-level Computer Science courses. It has been determined that undergraduate students who have completed the first three years of the BS in Computer Science degree will have the necessary background to take the three recommended graduate-level Software Engineering courses to be counted toward both degrees. With three graduate-level Software Engineering courses completed as part of the BS degree, students will be able to complete the MS in Software Engineering with three additional semesters rather than the customary four semesters. It should also be noted that Software Engineering offers both a project and a thesis option for completing the MS degree.

Undergraduate students who apply to RIT in Computer Science are initially accepted into only the BS degree program. Students interested in the accelerated BS in Computer Science/MS in Software Engineering dual degree program request entry into this program using a Change of Program form. **We encourage students to wait until at least the end of their second year at RIT before making this request.** Students should consult their academic advisor prior to officially filing the form. The Graduate Studies Director in Software Engineering determines whether or not a student is admitted into the accelerated BS in Computer Science/MS in Software Engineering dual degree program.

We will not define all possible combinations of Computer Science and Software Engineering courses and program paths that might be used for a BS in Computer Science/MS in Software Engineering combination, although we illustrate one possible scenario below. *We stress that this scenario is meant to demonstrate the feasibility of completing the accelerated BS in Computer Science/MS in Software Engineering dual degree program in three additional semesters beyond the BS degree.* Rather, we will advise students and guide them in putting together appropriate collections of courses that help them satisfy requirements and meet their goals once they are admitted to the accelerated BS/MS dual degree program. In addition to speaking with their academic advisor, students should also read through both the Undergraduate handbook and Graduate materials which are posted online for more specific details, requirements, and restrictions associated with the BS and MS degrees.

Illustrative BS in Computer Science/MS in Software Engineering Scenario						
Year 1 – Fall	CSCI 141	MATH 181	Gen Ed First Year Writing Course	Gen Ed Artistic Perspective	Gen Ed Global Perspective	ACSC 010
Year 1 – Spring	CSCI 142	MATH 182	MATH 190	Gen Ed Ethical Perspective	Gen Ed Social Perspective	Wellness Activity
Year 1 – Summer						
Year 2 – Fall	CSCI 243	CSCI 262	MATH 251	Lab Science 1	Gen Ed Elective	Wellness Activity
Year 2 – Spring	CSCI 261	SWEN 261	MATH 241	Lab Science 2	Gen Ed Scientific Principles	
Year 2 – Summer	CSCI 488 (co-op)					
Year 3 – Fall	CSCI 331	CSCI 320	CSCI 250	Science Elective	Gen Ed Immersion	
Year 3 – Spring	CSCI 499 (co-op)					
Year 3 – Summer						
Year 4 – Fall	CSCI 251	CS Elective	CSCI 344	Free Elective (SWEN 745 - BS/MS Overlapping)	Gen Ed Immersion	
Year 4 – Spring	CS Elective	CS Cluster Elective	Science Elective	Free Elective (SWEN 749 - BS/MS Overlapping)	CSCI 471	
Year 4 – Summer						
Year 5 – Fall	CSCI 499 (co-op)					
Year 5 – Spring	CS Cluster Elective	Gen Ed Immersion	Gen Ed Elective	Free Elective (SWEN 722 - BS/MS Overlapping)	Free Elective	
Year 5 – Summer						
Year 6 – Fall	SWEN 772	SWEN 755	SWEN 640			
Year 6 - Spring	Graduate Elective	Graduate Elective	SWEN 799			
Year 7 – Fall	SWEN 780/790 (Capstone Research Project/Thesis)					