Software Engineering

B.A. | Bachelor of Arts in Software Engineering   **nwciowa.edu/computer-science**

Focus on faith

A Christian perspective is central to everything we do at Northwestern. It's what sets us apart from colleges where faith is on the margins or missing altogether. As a software engineering major, you'll learn to view programming as an act of co-creation with God and software development as a powerful tool for furthering God's kingdom.

Tech by design

Software developers are an integral part of a program's life cycle—from planning and development to production and maintenance. Our software engineering major will teach you to design, build and test code to create functional, large-scale software—giving you hands-on experiences that simulate real-world practices.

Problem solvers

Make an impression on future employers by becoming a student member of the Association for Computing Machinery (ACM). You'll connect with computing professionals from across the country and have opportunity to compete in ACM's programming contests. In 2022, a Northwestern team placed 16th among 95 schools in our region—the second-best finish for a school from Iowa and for a private liberal arts college.

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100% placement
Since 2014, all grads from our department have found jobs or started grad school within six months of graduation.

8 to 15 students
Average size of a software engineering class

TOP 100
NWC's computer programming teams have scored among the world's top 100 at IBM's "Battle of the Brains."

Outcomes

Software developers seek to understand consumer needs and then create programs and applications that meet those needs. In an age where technology fulfills a wide variety of functions—especially in business and industry—software developers and quality assurance analysts are in high demand. With a median annual wage of $100,000 or more, these positions will account for nearly 410,000 new jobs by 2030, according to the U.S. Bureau of Labor Statistics.

Join our standout alumni at employers such as:

- Google, Mountain View, CA
- Epic Systems, Verona, WI
- Speedway Motors, Inc., Lincoln, NE

The student that wants to take everything

Year	Semester	Entering Odd	Entering Even
Year 1	Fall	CSC 171	CSC 171
	Spring	CSC 172	CSC 172
		CSC 220	CSC 291
Year 2	Fall	CSC 270	CSC 351
		CSC 321	CSC 361
	Spring	CSC 291	CSC 220
		CSC 310	CSC 331
Year 3	Fall	CSC 341	CSC 270
		CSC 351	CSC 321
		CSC 361	CSC 371
	Spring	CSC 331	CSC 310
		CSC 420	CSC 381
Year 4	Fall	CSC 371	CSC 341
	Spring	CSC 381	CSC 420
		CSC 470	CSC 470

Computer Science

Year	Semester	Choose 1 of 3	Choose 2 of 3
		Entering Odd	Entering Even
Year 1	Fall	CSC 171	CSC 171
	Spring	CSC 172	CSC 172
		CSC 220	CSC 291
Year 2	Fall	CSC 270	CSC 351
		CSC 321	CSC 361
	Spring	CSC 291	CSC 220
			CSC 331
Year 3	Fall	CSC 341	CSC 270
		CSC 351	CSC 321
		CSC 361	CSC 371
	Spring	CSC 331	CSC 381
Year 4	Fall	CSC 371	CSC 341
	Spring	CSC 381	

Software Engineering

Year	Semester	Choose 1 of 2	Choose 2 of 3
		Entering Odd	Entering Even
Year 1	Fall	CSC 171	CSC 171
	Spring	CSC 172	CSC 172
		CSC 220	
Year 2	Fall	CSC 270	CSC 351
		CSC 321	CSC 361
	Spring	CSC 291	CSC 220
Year 3	Fall	CSC 341	CSC 270
		CSC 351	CSC 321
		CSC 361	CSC 371
	Spring	CSC 331	CSC 291
Year 4	Fall	CSC 371	CSC 341
	Spring		CSC 331