

# COMPUTER SCIENCE MINOR

One 400-level DSC course

**Total Hours** **18**

## Contact

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## Program Description

A student with a major in another program may minor in Computer Science with the approval of the Associate Director of the School of Mathematics and Data Science. A minimum of eighteen hours of approved course credit is required.

Students wishing to declare a Computer Science minor should complete a course plan in consultation with a Mathematics and Data Science faculty member

## Program Goals

- Provide students with a strong background in the fundamentals of programming, algorithms, and discrete mathematics
- Develop in-demand technical skills that can lead to career opportunities
- Allow students to engage with internal or external collaborators and be better prepared to participate in interdisciplinary research initiative

## Transfer Credit

See Undergraduate Admissions (<https://catalog.une.edu/undergraduate/admissions/>) for more information.

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## Financial Information

Tuition and fees for subsequent years may vary. Other expenses include books and housing. For more tuition and fee information, please consult this catalog's Financial Information (<https://catalog.une.edu/undergraduate/financial-information-undergraduate-programs/>) section.

## Curricular Requirements

Students may earn a Minor in Computer Science by completing the following:

Code	Title	Hours
<b>Program Required Courses</b>		
DSC 225	Programming 1	3
DSC 270	(Data Structures and Algorithms)	3
MAT 212	Discrete Mathematics	3
Select three of the following:		9
DSC 301	Intro to Database Design/SQL	
DSC 344	Machine Learning	
DSC 360	Deep Learning	
MAT 220	Linear Algebra	
MAT 340	Graph Theory w/Applications	
MAT 405	Intro to Numerical Analysis	

Please note: While some courses can fulfill both core and program requirements, the credits earned do not count twice towards the minimum total required credits for the degree.

## Learning Outcomes

Students completing the Computer Science minor will:

- Apply fundamental principles and methods of Computer Science to a variety of applications
- Apply computational reasoning to a wide range of problems
- Formulate and implement algorithmic solutions to computational problems
- Analyze and compare alternative algorithms
- Manage data and implement database management systems