

# Computer Programming Minor

Professor: L. Webster

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A minor in computer programming provides students with the technical skills to design, build and test computer programs using a variety of programming languages. Students will also learn important software development skills essential to sound software design including requirements analysis, database normalization, and appropriate documentation. All courses are taught in the CDT Department's software development laboratories and follow a problem-based approach to student learning.

This minor is designed for students who are required to complete computer programming courses as part of their academic program of study or who are interested in software development. This minor will complement majors that have a heavy emphasis in programming, such as Mathematics, Mathematical Data Science, Physics, Chemistry, and other programs in the sciences. The skills acquired will also be useful to students in Business, Accounting, Digital Media, and the Digital Humanities.

Students who complete the computer programming minor have demonstrated their ability to:

- Apply the methods of software design and documentation for a computer program
- Design, create, and test computer programs in a variety of programming languages
- Identify and document user requirements
- Complete a normalized data design for a computer program

Students who are completing a major in Computer Systems Analysis are not eligible to complete a minor in Computer Programming.

**ACADEMIC REQUIREMENTS SUMMARY SHEET**

**ACADEMIC YEAR 2024-2025**

Major: COMPUTER PROGRAMMING MINOR

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Student's Last Name First Name Middle Initial

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Advisor Date Major Declared

Course Code	Title	Hours	Semester	Grade
CSA 104	Programming Logic and Design	3		
CSA 304	Structured Programming	4		
CSA 390	Object Oriented Programming	3		
CSA 404	Data Structures	4		
CSA 327	Database Design	3		
<i>Choose one of the following elective courses</i>				
CSA 321	Python Programming	3		
DIG 250	Web Page Design	3		
<b>Total Hours Required For Minor</b>		<b>20</b>		

If any substitutions or waivers of requirements are allowed, please list below and initial.

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Advisor Signature Department Chair Signature