

# Computer Programming (Minor)

## Program Overview

The Department of Computer Science offers a Minor in Computer Programming (CPM) to undergraduate majors in any field except Computer Science, Electrical Engineering, and Computer Engineering. The minor requires 19 hours of coursework from the Computer Science core.

The objectives of this minor are to:

1. Encourage students to combine computing with their own disciplines.
2. Promote quality and process when developing computing solutions.
3. Give graduating seniors with a minor in computer programming an added advantage in the job market.

## Admissions Requirements

Undergraduates who have completed CODA into a degree program except for Computer Science, Electrical Engineering, and Computer Engineering can apply for the Minor in Computer Programming via MyPackPortal. Students must complete E 115 or COS 100, Calculus I (MA 121, MA 131, or MA 141), and CSC 116 with a grade of C or higher, and have an overall GPA of at least 2.25. The CSC Coordinator for Academic Minor, as listed below, will be the minor advisor.

## Certification Requirements

The Department of Computer Science Advising Office will certify the minor prior to graduation. The minor must be completed no later than the semester in which the student expects to graduate from their degree program.

## CSC Coordinator for Academic Minor

**Ms. ToniAnn Marini**

111 Lampe Drive, Room 219-A

919.515.7920

tamarini@ncsu.edu

SIS Code: 14CPM

## Plan Requirements

The minor is awarded to students completing the required courses before or during the semester they plan to graduate with their major(s) with a Minor GPA of 2.0 or higher.

Code	Title	Hours	Counts towards
<b>Required Courses</b>			
CSC 116	Introduction to Computing - Java <sup>1,2</sup>	3	
CSC 216	Software Development Fundamentals <sup>2</sup>	3	

CSC 217	Software Development Fundamentals Lab <sup>2</sup>	1
CSC 226	Discrete Mathematics <sup>2</sup>	3
CSC 230	C and Software Tools	3
CSC 246	Concepts and Facilities of Operating Systems for Computer Scientists	3
CSC 316	Data Structures and Algorithms	3
<b>Total Hours</b>		<b>19</b>

<sup>1</sup> Corequisites for CSC 116 Introduction to Computing - Java (may be taken prior to or in the same semester as CSC 116 Introduction to Computing - Java):

- E 115 Introduction to Computing Environments or COS 100 Science of Change
- MA 121 Elements of Calculus

<sup>2</sup> with a grade of C or better