

COMPUTER INFORMATION SYSTEMS PROGRAMMING SPECIALIST, MINOR

Minor in Programming Specialist (244106M)

Program Contacts

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The following information has official approval of **The Department of Computer Science** and **The College of Engineering and Polymer Science**, but is intended only as a guide. Completion of this certificate is contingent upon many factors, including but not limited to: class availability, total number of required credits, work schedule, finances, family, course drops/withdrawals, successfully passing courses, prerequisites, among others.

The following courses constitute a "Minor in Programming Specialist" and must be completed with a minimum grade point average of 2.0 overall for the minor to be noted on the student's record. Please refer to the University Requirements for Minor Areas of Study (<https://bulletin.uakron.edu/undergraduate/important-policies/graduation-requirements/#minor-req>) for specific graduation information regarding minors.

Summary

Code	Title	Hours
Required Courses		15
Electives		6
Total Hours		21

Required Courses ¹

Code	Title	Hours
2440:121	Introduction of Logic/Programming	3
2440:160	JAVA Programming ³	3
2440:170	Visual BASIC ³	3
2440:180	Introduction to Database Management ³	3
2440:256	C++ Programming ²	3
Total Hours		15

¹ Students must achieve a grade of C or better in their technical courses (2440).

Electives ¹

Code	Title	Hours
Select six credits from the following Computer Information Systems Electives:		6
2440:140	Web Design Fundamentals	

2440:145	Introduction to Unix/Linux	
2440:210	Client/Server Programming ²	
2440:211	Interactive Web Programming ²	
2440:241	Systems Analysis & Design ²	
2440:290	Special Topics: Computer Information Systems	
Total Hours		6

- ¹ Students must achieve a grade of C or better in their technical courses (2440).
- ² Traditionally Fall Only (See Program Contact).
- ³ Traditionally Spring Only (See Program Contact).

Note:

- Students entering the Computer Information Systems (CIS) minor programs (Programming and Cisco Networking Technology) must pass department placement exams or complete the following bridge course prior to enrolling in the program.
- Bridge Course: 2440:105 Introduction to Computers and Application Software