Computer Technology- Associate in Applied Science

For more information contact the regional campus coordinator for computing programs: on the Hamilton campus at 301 Mosler Hall, 513-785-3132.

The computer technology major continuation option is designed for students who wish to earn an associate degree at the regional campuses and ultimately obtain a bachelor's degree in one of three computing programs that can be completed at the Oxford campus. It allows students to complete an Associate Degree in Applied Science by taking approximately half of the courses for a bachelor's degree in one of the following majors: Computer Science, Software Engineering, or Computer Engineering. After completing the associate degree, students may relocate to the Oxford campus and continue with junior standing. Students who wish to find employment after completing this associate degree are prepared for positions such as computer programmers, system support personnel and other technical computing positions.

Program Requirements

(62 Semester hours)

Code	Title	Credit Hours
Foundation Requirements		
Select the following:		
ENG 111	Composition and Rhetoric	3
MTH 151	Calculus I	4
MTH 231	Elements of Discrete Mathematics	3
or MTH 331	Proof: Introduction to Higher Mathematics	
Natural Science Electives		8-10
Select two of the following six options:		
BIO/MBI 115	Biological Concepts: Ecology, Evolution, Genetics, and Diversity	
BIO/MBI 116	Biological Concepts: Structure, Function, Cellular, and Molecular Biology	
CHM 141 & CHM 144	College Chemistry and College Chemistry Laboratory	
CHM 142 & CHM 145	College Chemistry and College Chemistry Laboratory	
PHY 181 & PHY 183	General Physics I and General Physics Laboratory I	
PHY 182 & PHY 184	General Physics II and General Physics Laboratory II	
Social Science Elective		3
STC 135	Principles of Public Speaking	3
or APC 231	Small Group Communication	
Core Requirements		
CEC 111	Imagination, Ingenuity and Impact I	2
CEC 112	Imagination, Ingenuity, and Impact II	2
CSE 174	Fundamentals of Problem Solving and Programming	3
CSE 271	Object-Oriented Programming	3
CSE 274	Data Abstraction and Data Structures	3
Other Requirements [1]		
CSE Electives (9 credit hours required)		9
CYB 134	Introduction to Cybersecurity	
CSE 201	Introduction to Software Engineering	
CSE 202	Software Requirements	
CSE 212	Software Engineering for User Interface and User Experience Design	
CSE/CIT 262	Technology, Ethics, and Global Society	
CSE 270	Special Topics	
CSE 273	Optimization Modeling	
CSE 278	Systems I: Introduction to Systems Programming	
Math/Statistics Electives (6 credit hours required)		6
MTH 222	Introduction to Linear Algebra	
MTH 245	Differential Equations for Engineers	
MTH 251	Calculus II	
or MTH 249	Calculus II	
MTH 252	Calculus III	
STA 301	Applied Statistics	
or STA 261	Statistics	
STA 333	Nonparametric Statistics	
Miami Plan 2023 Electives (see advisor) [2]		10
Total Credit Hours		**62-64**

[1] Substitutions for these electives are available with the approval of the department chair or chief department advisor. Some courses may be offered only at the Oxford campus.

[2] Miami Plan elective courses are intended to represent any other course requirements as needed to fulfill Miami's Liberal Education requirements and graduation requirements. Students should consult their academic advisor and choose courses consistent with current requirements, as indicated in each student's DAR.

Restriction on courses that can be taken Credit/No Credit: All computer science and software engineering courses (CSE), all required mathematics, and the courses that comprise the student's year of science must be taken for a grade.