



Computer Science

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The Computer Science curriculum is designed to provide students with the foundations for work in a computing field. It includes course work in language systems, databases, networking, software design, and web development. The program prepares students for graduate studies in Computer Science and related fields. It also prepares students to obtain computer related jobs, which include: software engineers, web programmers and designers, database administrators, database programmers, system administrators, and systems analysts.

Degrees Offered

- Bachelor of Science—with a Major in Computer Science
- Bachelor of Science or Arts—with a Minor in Computer Science
- Associate of Applied Science Degree in Information Technology with a Major in Programming and Software Development

Several of our graduates obtained advanced degrees in Computer Science from institutions such as Ohio University and William & Mary.

Current graduates work as programmers, system analysts, and web designers. Some are running their own computer related businesses.



Recommended Course Sequence-Bachelor of Science in Computer Science

First Year

Fall Semester

- LA10101 Freshman Success
- CS20104 Programming I
- Math/General Education/Minor requirement

Spring Semester

- CS20204 Programming II
- Math/General Education/Minor requirement

Second Year

Fall Semester

- CS22003 Data Structures
- CS21503 Intro. To Database
- Math/General Education/Minor requirement

Spring Semester

- CS24303/44303 Software Design
- MTH25403 Discrete Mathematics
- General Education/Minor requirement

Third Year

Fall Semester

- CS32003 Operating Systems Or CS34103 Computer Algorithms
- CS Electives
- Math/General Education/Minor requirement

Spring Semester

- CS31503 Programming Languages Or CS33403 Web Programming & Development
- CS41103 Computer Architecture
- CS Electives
- Math/General Education/Minor requirement

Fourth Year

Fall Semester

- CS34103 Computer Algorithms Or CS32003 Operating Systems
- CS Electives
- Math/General Education/Minor requirement

Spring Semester

- CS33403 Web Programming & Development
- CS41103 Computer Architecture Or CS31503 Programming Languages
- CS Electives
- Math/General Education/Minor requirement

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Bachelor of Science in Computer Science Check List

General Education	40 credits	Computer Science Major Courses	83 credits
Communication Skills	9 credits	Computer Science Required Courses	
COM 11103 Fund of Speech Communications	_____	CS 20104 Computer Programming I	_____
ENG 11103 Composition I	_____	CS 20204 Computer Programming II	_____
ENG 11203 Composition II	_____	CS 21503 Introduction to Database	_____
Health & Physical Education	2 credits	CS 22003 Data Structures	_____
HPE 10101 Human Wellness & Phys. Fit	_____	CS 31503 Programming Languages	_____
HPE Activity Course	_____	CS 32003 Operating System	_____
Arts/Humanities	9 credits	CS 33403 Web Programming & Development	_____
Group I. At least one course from:		CS 34103 Computer Algorithms	_____
ART 10303 Art Appreciation	_____	CS 41103 Computer Architecture	_____
FPA 10503 Fine Arts	_____	CS 24303/44303 Software Design	_____
MUS 10403 Music Appreciation	_____	MTH 25403 Discrete Mathematics	_____
Group II. At least one course from:		Total	35 credits
ENG 24103 Literary Imagination	_____	CS Electives selected from the following	5 credits
HUM 20103 Humanities	_____	CS 35103 Theory of Computation	_____
PHR 21103 Philosophical Inquiry	_____	CS 41503 Advanced Database	_____
Group III. At least one course from:		CS 42503 Mobile Application Development	_____
HIS 13103 World Civilization I	_____	CS 43503 Network Security Programming	_____
HIS 13203 World Civilization II	_____	CS 46403 Adv. Comm. & Networking	_____
Social Science	6 credits	CS 44503 Big Data Systems	_____
Group I. At least one course from:		CS 33003 Cloud Computing	_____
ATH 12103 Anthropology	_____	Selected Minor & Personal Electives	43 credits
HIS 12203 American History II (Since 1877)	_____	Total Hours Needed to Graduate	125 credits
POL 11103 American National Government	_____	Note: A student must complete thirty-three (33) hours	
Group II. At least one course from:		at the 30000-40000 level.	
ECO 11103 Contemporary Economics	_____		
PSY 11103 General Psychology	_____		
SOC 11103 Introduction to Sociology	_____		
Liberal Arts	1 credit		
LA 10001 Gateway to Success	_____		
Mathematics & Natural Science	13 credits		
Group I Mathematics. At least one course from:			
MTH 21404 Intro Prob. & Stats	_____		
MTH 15105 Calculus I (Required)	_____		
Group II Biology. At least one course from:			
BIO 11004 Plants & People	_____		
BIO 11404 Principles of Biology	_____		
BIO 12104 Biology 1	_____		
Group III. Natural Science. At least one course from:			
CHM 10404 Principles of Chemistry	_____		
NSC 22304 Environmental Science	_____		
PHY 10404 Principles of Physics	_____		

Contact:

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