

COMPUTER SCIENCE (BACHELOR OF SCIENCE, B.S.)

Requirements

Code	Title	Credit Hours
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General Studies

Students must complete General Studies courses (42-47)
(<http://catalog.missouriwestern.edu/undergraduate/university-information/academic-standards-regulations/baccalaureate-degree/#bachelor-general-studies>)

Core Requirements

Code	Title	Credit Hours
CSC 184	Introduction to Computer Programming	3
CSC 245	Enterprise Systems Computing: COBOL I	3
or CSC 246	Programming Languages and Paradigms	
CSC 254	Object Oriented Programming	3
CSC 274	Introduction to Unix/Linux	2
CSC 285	Data Structures	3
CSC 289	Computational Methods for Computer Science	3
CSC 294	Networking and Telecommunications	3
ACT 301	Applied Database Systems	3
CSC 305	Database Architecture and Concepts	3
CSC 345	Enterprise Systems Computing: COBOL II	3
or CSC 346	Enterprise Systems with Java	
CSC 406	Object Oriented Applications and Program Development	3
CSC 410	Network Security Technologies	3
CSC 490	CS Career Preparation	1
Select one of the following Statistics courses:		3-4
GBA 210	Business Statistics I	
MAT 111	Introductory Statistics	
MAT 111E	Introductory Statistics	

Concentration

Select one of the following concentrations in Computer Science:	24-27
General Concentraiton	
Computer Information Systems Concentration	

Concentrations:

General (p. 1)

Computer Information Systems (p. 1)

General Concentration

Code	Title	Credit Hours
Concentration Requirements		
MAT 165 & MAT 166	Calculus with Analytic Geometry I: Differentiation and Calculus with Analytic Geometry I: Integration	5-6
or MAT 167	Calculus with Analytic Geometry I	
CSC 208	Discrete Structures I	3

CSC 264	Computer Architecture and Assembly Language Programming	3
CSC 318	Simulation and Modeling	3
CSC 386	Operating Systems Concepts	3
Select nine credit hours from ACT, CSC, or MAT courses numbered 300 - 599		9
Total Credit Hours		26-27

Note: In addition, Computer Science majors must take PHY 110 College Physics I or PHY 210 University Physics I to meet the Natural Sciences portion of their General Studies program.

Computer Information Systems Concentration

*Effective Fall 2020, this program is being phased out and has a 3-year teach out plan. More information can be found here (<https://www.missouriwestern.edu/acadaff/phased-out-programs/>).

Code	Title	Credit Hours
Concentration Requirements		
ACC 201	Introductory Financial Accounting	3
ACT 102	Introduction to Web Page Development	3
ACT 476	Applications of Computer Information Sciences Capstone	3
CSC 201	Microcomputer Applications	3
CSC 400	Systems Analysis and Design	3
GBA 220	Business Communications	3
or ETC 200	Introduction to Technical Communication	
Select six credit hours from ACT, CSC, or MAT courses numbered 300 - 599		6
Total Credit Hours		24

Note: In addition, Computer Information Systems majors must take ECO 260 Principles of Macroeconomics or ECO 261 Principles of Microeconomics to meet the Social Sciences portion of their General Studies program.

Program Graduation Requirements

1. Earn a grade of C or higher in all major coursework.
2. Earn an overall GPA of at least 2.0 and a major GPA of at least 2.0.

University Graduation Requirements

1. Earn a minimum of 120 credit hours (100 level and higher, maximum of 6 CED credit hours applicable).
2. Earn a minimum of 30 credit hours in upper-division courses. Lower-division transfer courses accepted as meeting upper-division departmental course requirements cannot be used to fulfill this requirement.
3. Earn 30 of the last 45 credit hours at MWSU in institutional coursework (exclusive of credit by examination).
4. Participate in required departmental and campus wide assessments.
5. Fulfill the Missouri Constitution requirement.
6. Successfully pass the Missouri Higher Education Civics Achievement exam.