# MSU – West Plains

MSU West Plains Associate of Science in Computer Science MSU Bachelor of Science in Computer Science- Computer Science Option

The following is a guide to graduation with completion of MSU West Plains Associate of Science in Computer Science and MSU's Bachelor of Science in Computer Science- Computer Science Option degree. The degree may be completed on campus only.

Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met. Catalog Year: 2022-23. Date modified: 11.18.22. MSU Transfer Advisor: Ajay Katangur, AjayKatangur@MissouriState.edu, 417-836-6646. Finish in 4 Go Bears Missouri State University

MSU West Plains Year 1 Semester 1

Institutional Requirement

* West Plains Course ID/Title: IDS 110 Student Success
* Credit Hours: 2
* MSU Equivalent: GEC 101
* Meets Core 42: No
* MSU Major Requirement: No

Institutional Requirement

* West Plains Course ID/Title: CIS 101 Computers for Learning
* Credit Hours: 3
* MSU Equivalent: ITC 200
* Meets Core 42: No
* MSU Major Requirement: Yes

Major Requirement

* West Plains Course ID/Title: CFD 130 The World of Computer Science
* Credit Hours: 3
* MSU Equivalent: CSC 130
* Meets Core 42: No
* MSU Major Requirement: Yes

Written Communications - 6 credit hours

* West Plains Course ID/Title: ENG 110 Writing 1
* Credit Hours: 3
* MSU Equivalent: ENG 110
* Meets Core 42: Yes
* MSU Major Requirement: No

Oral Communications

* West Plains Course ID/Title: COM 115 Fundamentals of Public Speaking
* Credit Hours: 3
* MSU Equivalent: COM 115
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Semester 1 Total = 14 credit hours

### MSU West Plains Year 1 Semester 2

Major Requirement

* West Plains Course ID/Title: Must earn a “C” or better CSC 131 Computational Thinking
* Credit Hours: 4
* MSU Equivalent: CSC 131
* Meets Core 42: No
* MSU Major Requirement: Yes

Written Communications

* West Plains Course ID/Title: ENG 210 Writing 2 Academic Writing or ENG 221 Writing 2: Writing for the Professions
* Credit Hours: 3
* MSU Equivalent: ENG 210, ENG 221
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Humanities and Fine Arts – Must fulfill 2 disciplines

* West Plains Course ID/Title: ART 115▲, ART 200, ENG 200, ENG 236, MUS 162\*▲, MUS 239, MUS 241,
PHI 105, PHI 110, PHI 115, REL 100, REL 101, SPN 101, SPN 102, THE 101
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Mathematical Sciences

* West Plains Course ID/Title: MTH 261 Analytic Geometry and Calculus 1
* Credit Hours: 5
* MSU Equivalent: MTH 261
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Semester 2 Total = 15 credit hours

### MSU West Plains Year 2 Semester 3

Major Requirement

* West Plains Course ID/Title: MTH 280 Analytic Geometry and Calculus 2
* Credit Hours: 5
* MSU Equivalent: MTH 280
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Major Requirement – Must fulfill 2 disciplines

* West Plains Course ID/Title: CSC 232 Data Structures
* Credit Hours: 4
* MSU Equivalent: CSC 232
* Meets Core 42: No
* MSU Major Requirement: Yes

Humanities and Fine Arts – Must fulfill 2 disciplines

* West Plains Course ID/Title: ART 115▲, ART 200, ENG 200, ENG 236, MUS 162\*▲, MUS 239, MUS 241,
PHI 105, PHI 110, PHI 115, REL 100, REL 101, SPN 101, SPN 102, THE 101
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Natural Sciences – Must fulfill 2 disciplines including one course with a lab component

* West Plains Course ID/Title: Choose one: PHY 123 Introduction to Physics 1, PHY 203 Foundations of Physics 1
* Credit Hours: 4-5
* MSU Equivalent: PHY 123, PHY 203
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Semester 3 Total = 16-17 credit hours

### MSU West Plains Year 2 Semester 4

Natural Sciences – Must fulfill 2 disciplines including one course with a lab component

* West Plains Course ID/Title: Choose one: BIO 121 General Biology 1, BMS 110 Introduction to the Biomedical Sciences
* Credit Hours: 3
* MSU Equivalent: BIO 121, BMS 110
* Meets Core 42: Yes
* MSU Major Requirement: Yes

Social/Behavioral Sciences

* West Plains Course ID/Title: PSY 121 Introductory Psychology
* Credit Hours: 3
* MSU Equivalent: PSY 121
* Meets Core 42: Yes
* MSU Major Requirement: No

Social/Behavioral Sciences

* West Plains Course ID/Title: ECO 165 Principles of Microeconomics
* Credit Hours: 3
* MSU Equivalent: ECO 165
* Meets Core 42: Yes
* MSU Major Requirement: No

Social/Behavioral Sciences

* West Plains Course ID/Title: Choose one: PLS 101 American Democracy and Citizenship, HST 121 Survey of U.S. History to 1877, HST 122 Survey of U.S. History Since 1877
* Credit Hours: 3
* MSU Equivalent: PLS 101, HST 121, HST 122
* Meets Core 42: Yes
* MSU Major Requirement: No

Humanities and Fine Arts – Must fulfill 2 disciplines

* West Plains Course ID/Title: ART 115▲, ART 200, ENG 200, ENG 236, MUS 162\*▲, MUS 239, MUS 241,
PHI 105, PHI 110, PHI 115, REL 100, REL 101, SPN 101, SPN 102, THE 101
* Credit Hours: 3
* MSU Equivalent: Varies
* Meets Core 42: Yes
* MSU Major Requirement: No

Semester 4 Total = 15 Credit Hours
Total Hours at OTC = 60
Total Hours Applied Toward MSU Major Requirements: 27-28

\*One credit hour course ▲MOTR code 'PERF' course- only three credit hours of PERF courses can be applied to Humanities knowledge area.

# Missouri State University

MSU Bachelor of Science in Computer Science- Computer Science Option after MSU West Plains Associate of Science in Computer Science

Date Modified: 11.18.22
MSU Transfer Advisor: Ajay KatangurAjay, Katangur@MissouriState.edu, 417-836-6646. Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met.

Catalog Year: 2022-23

### MSU Year 3 Semester 1

Major Requirement

* MSU Course ID/Title: Choose one: MTH 314 Discrete Mathematics, MTH 315 Algebraic Structures
* Credit hours: 3

Major Requirement – Must earn a “C” or better

* MSU Course ID/Title: CSC 244 Computer Architecture
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 3\*\* Choose an eligible CSC course numbered higher than 303, with no more than three hours in CSC 399 and no more than three hours in CSC 596. Courses not eligible: CSC 500, 505, and 510.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 365 Internet Programming
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 388 Introduction to Secure Programming
* Credit hours: 3

Semester Total = 15 Credit Hours

### MSU Year 3 Semester 2

Major Requirement

* MSU Course ID/Title: CSC 335 Database System Concepts
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 360 Operating Systems
* Credit hours: 4

Major Requirement

* MSU Course ID/Title: CSC 482 Seminar in Computer Science
* Credit hours: 1

Major Requirement

* MSU Course ID/Title: CSC 325 Algorithms and Advanced Data Structures
* Credit hours: 3

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 3\*\* Choose an eligible CSC course numbered higher than 303, with no more than three hours in CSC 399 and no more than three hours in CSC 596. Courses not eligible: CSC 500, 505, and 510.
* Credit hours: 3

Semester 1 Total: 16 Credit Hours

### MSU Year 4 Semester 3

Major Requirement

* MSU Course ID/Title: CSC 333 Languages and Machines
* Credit hours: 2

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 3\*\* Choose an eligible CSC course numbered higher than 303, with no more than three hours in CSC 399 and no more than three hours in CSC 596. Courses not eligible: CSC 500, 505, and 510.
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 565 Computer Networks
* Credit hours: 3

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Semester 3 Total: 14 Credit Hours

### MSU Year 4 Semester 4

Major Requirement

* MSU Course ID/Title: MTH 345 Statistics for Scientists and Engineers
* Credit hours: 3

Major Requirement

* MSU Course ID/Title: CSC 450 Introduction to Software Engineering
* Credit hours: 4

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 5

General Elective\*\*

* MSU Course ID/Title: Work with your MSU advisor to identify courses that will complement your specific career goals.
* Credit hours: 3

Semester 4 Total: 15 Credit Hours
Total Hours at MSU: 60
Total Hours Overall: 120-121

Successful completion of the computer science major field test (MFT) with at least a score of 50th percentile is required.

\*\* Electives provide the opportunity to customize your degree program. Some elective credits may or may not be needed to bring total credit hours to a minimum of 120 credit hours and upper division hours (300+) to 40.

This information is provided as a guide only.

* MSU-WP students are strongly encouraged to meet with their major specific MSU transfer advisor early in their MSU-WP education to discuss the most appropriate MSU-WP coursework for their intended MSU major, MSU degree requirements, etc.
* Students are required to fulfill MSU graduation and GPA requirements to receive a degree and should consult with their MSU advisor and the MSU undergraduate catalog for details, as there may exist pre-requisite requirements as well as periodicity limitations that could affect scheduling sequences.
* Please note that transfer students from Missouri public colleges and universities may follow the general education and general baccalaureate degree requirements in effect at Missouri State when they first enrolled (or re-enrolled after an absence of one calendar year or more) as degree-seeking students at the institutions from which they transferred (e.g., MSU-WP).