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| Date Modified: | 11.18.22 |
| MSU Transfer Advisor: | Ajay Katangur AjayKatangur@MissouriState.edu 417-836-6646 |

Courses are sequenced to provide guidance and to help ensure that prerequisite requirements are met.

Catalog Year: 2022-2023



**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.

MSU West Plains Year 1 Semester 1

| REQUIREMENT DESCRIPTION | West Plains COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMEN |
|----------------------------------|-----------------------------|---------------------------------|--------------|----------------|---------------|----------------------|
| Institutional Requirement | IDS 110 | Student Success | 2 | GEC 101 | | |
| Institutional Requirement | CIS 101 | Computers for Learning | 3 | ITC 200 | | |
| Major Requirement | CSC 130 | The World of Computer Science | 3 | CSC 130 | | ✓ |
| Written Communications | ENG 110 | Writing I | 3 | ENG 110 | ✓ | |
| Oral Communications | COM 115 | Fundamentals of Public Speaking | 3 | COM 115 | ✓ | |
| Semester 1 Total | | | 14 | | | |

MSU West Plains Year 1 Semester 2

| REQUIREMENT DESCRIPTION | West Plains COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMEN |
|--|--|---|-------------------------------|-------------------------------|--------------------|----------------------|
| Major Requirement <i>Must earn a "C" or better</i> | CSC 131 | Computational Thinking | 4 | CSC 131 | | ✓ |
| Written Communications | ENG 210 or ENG 221 | Writing II: Academic Writing Writing II: Writing for the Professions | 3 | ENG 210 ENG 221 | ✓ | |
| Humanities and Fine Arts <i>Must fulfill 2 disciplines</i> | Choose one: ART 115▲ ART 200 ENG 200 | ENG 236 MUS 162*▲ MUS 239 | MUS 241 PHI 105 PHI 110 | PHI 115 REL 100 SPN 101 | SPN 102 THE 101 | ✓ |
| Mathematical Sciences | MTH 261 | Analytic Geometry & Calculus I | 5 | MTH 261 | ✓ | ✓ |
| Semester 2 Total | | | 15 | | | |

MSU West Plains Year 2 Semester 3

| REQUIREMENT DESCRIPTION | West Plains COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMEN |
|--|--|---|-------------------------------|-------------------------------|--------------------|----------------------|
| Major Requirement | MTH 280 | Analytic Geometry & Calculus II | 5 | MTH 280 | ✓ | ✓ |
| Major Requirement <i>Must earn a "C" or better</i> | CSC 232 | Data Structures | 4 | CSC 232 | | ✓ |
| Humanities and Fine Arts <i>Must fulfill 2 disciplines</i> | Choose one: ART 115▲ ART 200 ENG 200 | ENG 236 MUS 162*▲ MUS 239 | MUS 241 PHI 105 PHI 110 | PHI 115 REL 100 SPN 101 | SPN 102 THE 101 | ✓ |
| Natural Sciences <i>Must fulfill 2 disciplines including one course with a lab component</i> | Choose one: PHY 123 PHY 203 | Introduction to Physics I Foundations of Physics I | 4-5 | PHY 123 PHY 203 | ✓ | ✓ |
| Semester 3 Total | | | 16-17 | | | |

MSU West Plains Year 2 Semester 4

| REQUIREMENT DESCRIPTION | West Plains COURSE ID/TITLE | | CREDIT HOURS | MSU EQUIVALENT | MEETS CORE 42 | MSU MAJOR REQUIREMEN |
|--|--|---|-------------------------------|---|--------------------|----------------------|
| Natural Sciences <i>Must fulfill 2 disciplines including one course with a lab component</i> | Choose one: BIO 121 BMS 110 | General Biology I Introduction to the Biomedical Sciences | 3 | BIO 121 BMS 110 | ✓ | ✓ |
| Social/Behavioral Sciences <i>Must fulfill 2 disciplines</i> | PSY 121 | Introductory Psychology | 3 | PSY 121 | ✓ | |
| Social/Behavioral Sciences <i>Must fulfill 2 disciplines</i> | ECO 165 | Principles of Microeconomics | 3 | ECO 165 | ✓ | |
| Social/Behavioral Sciences <i>Must fulfill 2 disciplines</i> | Choose one: PLS 101 HST 121 HST 122 | American Democracy and Citizenship Survey of US History to 1877 Survey of US History Since 1877 | 3 | PLS 101 HST 121 HST 122 | ✓ | |
| Humanities and Fine Arts <i>Must fulfill 2 disciplines</i> | Choose one: ART 115▲ ART 200 ENG 200 | ENG 236 MUS 162*▲ MUS 239 | MUS 241 PHI 105 PHI 110 | PHI 115 REL 100 SPN 101 | SPN 102 THE 101 | ✓ |
| Semester 4 Total | | | 15 | | | |
| Total Hours Required at West Plains | | | 60 | <i>Total Hours Applied Toward MSU Major Requirements:</i> | | 27-28 |

* One credit hour course

▲ MOTR code "PERF" course- only three credit hours of PERF courses can be applied to Humanities knowledge area.

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

MSU Year 3 Semester 1

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|--|---------------------|--|--------------|
| Major Requirement | Choose one: | | 3 |
| | MTH 314 MTH 315 | Discrete Mathematics Algebraic Structures | |
| Major Requirement <i>Must earn a "C" or better</i> | CSC 244 | Computer Architecture | 3 |
| Major Requirement | 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. <i>Courses not eligible: CSC 500, 505, and 510.</i> | 3 |
| Major Requirement | CSC 365 | Internet Programming | 3 |
| Major Requirement | CSC 388 | Introduction to Secure Computing | 3 |
| Semester 1 Total | | | 15 |

MSU Year 3 Semester 2

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|----------------------------|---|--|--------------|
| Major Requirement | CSC 335 | Database System Concepts | 3 |
| Major Requirement | CSC 360 | Operating Systems | 3 |
| Major Requirement | CSC 482 | Seminar in Computer Science | 1 |
| Major Requirement | CSC 325 | Algorithms and Advanced Data Structures | 3 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Major Requirement | 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. <i>Courses not eligible: CSC 500, 505, and 510.</i> | 3 |
| Semester 2 Total | | | 16 |

MSU Year 4 Semester 3

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|----------------------------|---|--|--------------|
| Major Requirement | CSC 333 | Languages and Machines | 2 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Major Requirement | 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. <i>Courses not eligible: CSC 500, 505, and 510.</i> | 3 |
| Major Requirement | CSC 565 | Computer Networks | 3 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Semester 3 Total | | | 14 |

MSU Year 4 Semester 4

| REQUIREMENT DESCRIPTION | MSU COURSE ID/TITLE | | CREDIT HOURS |
|----------------------------|---|---|----------------|
| Major Requirement | MTH 345 | Statistics for Scientists and Engineers | 3 |
| Major Requirement | CSC 450 | Introduction to Software Engineering | 4 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 5 |
| General Elective ** | Work with your MSU advisor to identify courses that will complement your specific career goals. | | 3 |
| Semester 4 Total | | | 15 |
| 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).