

MSU Program Contact Info:	Ajay Katangur AjayKatangur@MissouriState.edu 417-836-6646
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MSU-West Plains Associate of Science in Computer Science

to

MSU Bachelor of Science in Computer Science - Computer Science Option

Available on campus only.

Comprehensive majors do not require a minor or second major.

MSU West Plains Year 1 Semester 1

REQUIREMENT DESCRIPTION	MSU-West Plains COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Institutional Requirement	IDS 110	Student Success	1	GEC 101	
Institutional Requirement	CIS 101	Computers for Learning	3	ITC 200	
Major Requirement	EGR 100	Careers in Engineering and Computing	1	EGR 110	
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	MSU-West Plains COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
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*	Choose one Humanities and Fine Arts course.		3	Varies	
Mathematical Sciences	MTH 261	Analytic Geometry & Calculus I	5	MTH 261	✓
Semester 2 Total			15		

MSU West Plains Year 2 Semester 3

REQUIREMENT DESCRIPTION	MSU-West Plains COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
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*	Choose one Humanities and Fine Arts course.		3	Varies	
Natural Sciences*	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	MSU-West Plains COURSE ID/TITLE		CREDIT HOURS	MSU EQUIVALENT	MSU MAJOR REQUIREMENT
Major Requirement	CSC 297	Computer Science and Information Technology Capstone	1	CSC 000	
Natural Sciences*	Choose one:		3	BIO 121 BMS 110	✓
	BIO 121 BMS 110	General Biology I Introduction to the Biomedical Sciences			
Social/Behavioral Sciences*	PSY 121	Introductory Psychology	3	PSY 121	
Social/Behavioral Sciences*	ECO 165	Principles of Microeconomics	3	ECO 165	
Social/Behavioral Sciences* - Civics	Choose one:		3	PLS 101 HST 121 HST 122	
	PLS 101 HST 121 HST 122	American Democracy and Citizenship Survey of US History to 1877 Survey of US History Since 1877			
Humanities and Fine Arts*	Choose one Humanities and Fine Arts course.		3	Varies	
Semester 4 Total			16	Total MSU hours:	28-29
Total Hours at MSU-West Plains			61-62		

*Must fulfill two disciplines



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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
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
General Elective **			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	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
Major Requirement	CSC 450	Introduction to Software Engineering	3
General Elective **			3
Semester 3 Total			15

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 460	Senior Capstone Project	3
General Elective **			8
Semester 4 Total			14
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.

**Work with your MSU advisor to identify courses that will complement your specific career goals. 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-West Plains students are strongly encouraged to meet with their major specific MSU transfer advisor early in their MSU-West Plains education to discuss the most appropriate MSU-West Plains 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-West Plains).