



DEPARTMENT OF
HIGHER EDUCATION &
WORKFORCE DEVELOPMENT

New Program Report

Date Submitted:

02/06/2021

Institution

Missouri State University-West Plains

Site Information

Implementation Date:

8/1/2021 12:00:00 AM

Added Site(s):

Selected Site(s):

Missouri State University-West Plains, 128 Garfield, West Plains, MO, 65775

CIP Information

CIP Code:

110101

CIP Description:

A general program that focuses on computing, computer science, and information science and systems. Such programs are undifferentiated as to title and content and are not to be confused with specific programs in computer science, information science, or related support services.

CIP Program Title:

Computer and Information Sciences, General

Institution Program Title:

Computer Science

Degree Level/Type

Degree Level:

Associate Degree

Degree Type:

Associate of Science

Options Added:

Collaborative Program:

N

Mode of Delivery

Current Mode of Delivery

Classroom

Hybrid

Online

Student Preparation



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Special Admissions Procedure or Student Qualifications required:

Missouri State University-West Plains (MSU-WP) is an open admission campus. The proposed AS in Computer

Science has no special preparation required beyond the regular university admission requirements.

Specific Population Characteristics to be served:

MSU-WP is located in the most rural and isolated region of the state and are the only public higher educational opportunities in the seven county service area. Of the total residents in the service area, 25% live at or below the poverty line. Less than 9% of the service area population have achieved college degrees. Approximately 3/4 of the MSU-West Plains students are not prepared for college.

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:

Full-time and part-time faculty are required to have completed a minimum of a masters degree in order to teach the courses required for this degree program.

Estimate Percentage of Credit Hours that will be assigned to full time faculty:

Approximately 50% of the courses for this program may be taught by full-time faculty and 50% may be taught by per course faculty.

Expectations for professional activities, special student contact, teaching/learning innovation:

Full-time faculty are strongly encouraged to pursue continuing education opportunities in their respective fields and to participate in professional organizations; professional development funds are provided by the university. All full-time faculty serve as student advisors.

Student Enrollment Projections Year One-Five

Year 1	Full Time: 6	Part Time: 2	
Year 2	Full Time: 7	Part Time: 3	
Year 3	Full Time: 8	Part Time: 4	Number of Graduates: 10
Year 4	Full Time: 9	Part Time: 4	
Year 5	Full Time: 10	Part Time: 4	Number of Graduates: 15

Percentage Statement:

n/a

Program Accreditation

Institutional Plans for Accreditation:

Higher Learning Commission.

Most recent reaffirmation of accreditation: 2013 - 2014

Next reaffirmation of accreditation: 2023 - 2024

Program Structure

Total Credits:

60



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Residency Requirements:

Completion of last 15 credits in residence on the West Plains Campus or its extended campuses.

General Education Total Credits:

44

Major Requirements Total Credits:

16

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
CSC 232	4	Data Structures
CSC 130	3	The World of Computer Science
CSC 131	4	Computational Thinking
MTH 280	5	Analytic Geometry & Calculus II

Free Elective Credits:

0

Internship or other Capstone Experience:

Capstone experience is included in CSC 232.

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus, CBHE-approved service region or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program within the geographically applicable area.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

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Computer Science

Associate of Science in Computer Science

The Associate of Science in Computer Science is a transfer degree and contains specific general education and computer science courses needed to facilitate transfer. This academic guide is based on the 2021-2022 Missouri State University-West Plains Catalog. The time to complete the degree will vary, depending on remediation, summer enrollment, number of classes taken per semester, etc.

Degree Requirements

Course	Credit Hours
Written Communications	
ENG 110 Writing I	3
<i>Writing II: Select three (3) credit hours</i>	
ENG 210 Writing II: Academic Writing	3
ENG 221 Writing II: Writing for the Professions	3
Oral Communications	
COM 115 Fundamentals of Public Speaking	3
Mathematical Sciences	
MTH 261 Analytic Geometry & Calculus I	5
MTH 280 Analytic Geometry & Calculus II	5
Natural Sciences	
<i>Physics: Select four (4) or five (5) credit hours</i>	
PHY 123 Introduction to Physics I	
PHY 203 Foundations of Physics I	
Select an additional natural science courses from the list of approved Natural Sciences	7
Core 42 courses, to equal a minimum of seven (7) credit hours, including PHY 123 or PHY 203.	
Social and Behavioral Science	
PSY 121 Introductory Psychology	3
ECO 165 Principles of Microeconomics	3
<i>Civics: Select three (3) credit hours</i>	
HST 121 Survey of US History to 1877	3
PLS 101 American Democracy and Citizenship	3
Humanities and Fine Arts	
Select nine (9) credit hours in at least two (2) disciplines, from the list of approved Humanities and Fine Arts Core 42 courses.	9
Institutional Requirements	
CIS 101 Computers for Learning	3
IDS 110 Student Success	2
Computer Science Requirements	
CSC 130 The World of Computer Science	3
CSC 131 Computational Thinking	4
CSC 232 Data Structures	4
Total Hours	60

Degree Notes:

- Math requirements exclude MTH 197 or MTH 297.
- Students are required to complete a minimum of three (3) credit hours of math, regardless of placement.
- Electives must be approved by the department.
- Students should confirm the transferability of courses with their transfer university before completing courses at MSU-WP.
- This degree is a transfer degree and contains the Missouri Higher Education Core Transfer Curriculum (Core 42).

Recommended Two-Year Plan

Term	Course #	Credit Hours
Term 1 (Fall)	CIS 101	3
	COM 115	3
	CSC 130	3
	ENG 110	3
	IDS 110	2
Total		14

Milestone: Complete CSC 130, ENG 158. Complete MTH prerequisite in place of COM 115 if needed.

Term	Course #	Credit Hours
Term 2 (Spring)	CSC 131	4
	ENG 210 / ENG 221	3
	MTH 261	5
	Hum/Fine Arts	3
Total		15

Milestone: Complete CSC 131 & MTH 261.

Term	Course #	Credit Hours
Term 3 (Fall)	CSC 232	4
	MTH 280	5
	PHY 123 / PHY 203	4
	Hum/Fine Arts	3
Total		16

Milestone: Complete CSC 232; MTH 280 & PHY 123 or 203. Apply for admission to 4 year university.

Term	Course #	Credit Hours
Term 4 (Spring)	ECO 165	3
	PSY 121	3
	Civics	3
	Hum/Fine Arts	3
	Natural Science	3
Total		15

Milestone: Apply to graduate, Send final transcripts to 4 year university.

Milestone Notes:

- Milestones are a major step in the completion of the degree. Each milestone must be met in order to advance to the next stage of education.
- Milestone courses should be completed in the designated semester.
- All milestone courses must be completed with a C or higher.
- Students are encouraged to apply for graduation early in their last semester.

For More Information, Contact

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