CITY COLLEGE
MONTANA STATE UNIVERSITY BILLINGS

COMPUTER PROGRAMMING and APPLICATION DEVELOPMENT
ASSOCIATE OF APPLIED SCIENCE

ADVISING WORKSHEET 2025-2026

*Name*_____

Jacket Student Central
Phone: 406-247-3019
FAX: 406-247-3095   *Student ID*_____

Course			Credits	Grade	Semester	Equivalent
Recommended Preparatory Course (if needed)						
CAPP	120	Introduction to Computers	3			
Required Preparatory Courses						
General Education Requirements						
COMX	106	Communicating in a Dynamic Workplace	3			
M	114	Extended Technical Mathematics	3			
WRIT	121	Intro to Technical Writing	3			
Required Courses						
ARTZ	106	Visual Language-2-D Foundations	3			
CAPP	156	MS Excel	3			
CSCI	111B	Programming with Java I	3			
CSCI	114	Programming with C#	3			
CSCI	116	Introduction to Python Programming	3			
CSCI	121	Programming with Java II	4			
CSCI	150	Intro to Computer Science	3			
CSCI	181	Web Design & Programming	3			
CSCI	211	Client Side Programming	3			
CSCI	214	Server-side Web Programming & Administration	3			
CSCI	223	Software Development	3			
CSCI	240	Databases and SQL	3			
CSCI	258	Web Application Development	3			

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CSCI	299	Thesis/Capstone	3			
ITS	166	MS Windows 10 Configuration	3			ITS 210
ITS or ARTZ	212 258	Network Operating Sys-Server A New Media I	3			
ITS	224	Introduction to Linux	3			
NTS	104	CCNA 1: Intro to Networks	3			

TOTAL MINIMUM CREDITS REQUIRED   63

A grade of "C" (2.0) or higher is mandatory in all courses

Suggested Plan of Study

First Semester	Credits	Second Semester	Credits
ARTZ 106	3	CSCI 114	3
CSCI 150	3	CSCI 116	3
CSCI 240	3	CSCI 211	3
CSCI 181	3	ITS 212 or ARTZ 258	3
ITS 166 (210)	3	ITS 224	3
M 114	3	**TOTAL**	**15**
TOTAL	**18**		

Third Semester	Credits	Fourth Semester	Credits
CAPP 156	3	COMX 106	3
CSCI 111B	3	CSCI 121	3
CSCI 214	3	CSCI 258	3
CSCI 223	3	CSCI 299	3
WRIT 121	3	NTS 104	3
TOTAL	**15**	**TOTAL**	**15**

Transcript evaluation (if applicable completed) by: _____on _____

Developing a Plan of Study

To facilitate course planning and scheduling, students should be aware that not all courses are offered every semester. Some courses require pre-requisites and preparatory courses to be successfully completed or co-requisites be taken simultaneously.

Program Specific Information

Students should know the following information:

1) Computer Programming and Application Development is a fall start program. Please see an advisor for more information.
2) General Education courses can be completed in advance of the technical courses.
3) Many of the required courses are sequential in order and failure to pass one semester can impact the next.
4) Students that earn an AAS degree and want to further their education thus career; are able to go on for a Bachelor of Applied Science degree through MSUB. There are a variety of thematic concentrations for completing the BAS degree. Please consult with an advisor for more information.

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