



MONTANA STATE UNIVERSITY BILLINGS

COMPUTER PROGRAMMING and APPLICATION DEVELOPMENT
ASSOCIATE OF APPLIED SCIENCE

ADVISING WORKSHEET 2013-2014

City College
Jacket Student Central
Phone: 406-247-3019
Fax: 406-247-3095

Name _____

Student ID # _____

The required classes in this program begin in the fall semester.

Before a student can be accepted into the Computer Programming and Application Development degree program, competency in mathematics and computers must be demonstrated. This may be done by:

- Passing the math and computer placement test
- Transfer of appropriate credits
- Current ACT/SAT scores in the required range
- Taking the necessary prerequisite English, math and/or computer classes identified in the catalog

Course			Credits	Grade	Semester	Equivalent
Recommended Preparatory Courses						
CAPP	120	Introduction to Computers	3			

Required Preparatory Courses						

General Education Requirements

COMX	106	Communicating in a Dynamic Workplace	3			
M	143	Finite Mathematics	4			
WRIT	121	Intro to Technical Writing	3			

*Finite Mathematics must be completed before moving into the second semester of classes.

Required Courses

CAPP	156	MS Excel	3			
CAPP	158	MS Access	3			
CMP	135	Introduction to Web Design	3			
CMP	236	Advanced Web Programming	3			
CSCI	110	Programming with Visual Basic I	3			
CSCI	111B	Programming with Java I	4			
CSCI	114	Programming with C#	3			
CSCI	115	Programming with Perl	2			
CSCI	120	Programming with Visual Basic II	3			

CSCI	121	Programming with Java II	4			
CSCI	210	Web Programming	3			
CSCI	223	Software Development	3			
CSCI	240	Databases and SQL	3			
CSCI	299	Thesis/Capstone	3			
ITS	140	CCNA 1: Discovery	4			
ITS	161	MS Windows 7 Configuration	3			
ITS	162	Windows Server 08 Active Directory Configuration	3			
ITS	224	Introduction to Linux	3			

* offered on the main campus

Restricted Electives – 3 credits required, chosen in consultation with an advisor

Restricted Electives to choose from:

CAPP 110	Short Courses: MS Outlook.....	1
CAPP 154	MS Word.....	3
ITS 182	Help Desk Support.....	3
MART 260	Computer Presentation and Animation.....	3

TOTAL MINIMUM CREDITS REQUIRED 69

A grade of “C” or higher is mandatory in all required courses.

Suggested Plan of Study

First Semester	Credits	Second Semester	Credits
CAPP 156	3	CAPP 158	3
CMP 135	3	CSCI 210	3
CSCI 110	3	WRIT 121	3
CSCI 115	2	COMX 106	3
M 143	4	CSCI 120	3
ITS 161	3	ITS 162	3
TOTAL	18	TOTAL	18

Third Semester	Credits	Fourth Semester	Credits
CSCI 111B	4	CSCI 114	3
CSCI 121	4	CSCI 240	3
CSCI 223	3	CSCI 299	3
CMP 236	3	ITS 140	4
ITS 224	3	Restricted Elective	3
TOTAL	17	TOTAL	16

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.

Selected Courses and Prerequisites

Key: F= Fall; S=Spring; X=Summer; # = online

Computer Programming and Application Development Associate of Applied Science:

Course	Required Pre-requisite	Recommended Pre-requisite	Required Co-Requisite	Recommended Co-requisite	Term Offered
Recommended: CAPP 120					F, F#, S, S#, X, X#
CAPP 156	CAPP 120				F, F#, S, S#
CAPP 158	CAPP 120				F, F#, S, S#
CMP 135	CAPP 120				F, S
CMP 236	CSCI 210				S
COMX 106					F, F#, S, S#, X, X#
CSCI 110	CAPP 120		CSCI 109		F
CSCI 111B	CAPP 120				F
CSCI 114	CAPP 120				
CSCI 115	CAPP 120				S
CSCI 120	CSCI 260				S
CSCI 121	CSCI 111B		CSCI 299		F, S
CSCI 210	CMP 135				S
CSCI 223	CST 230				
CSCI 240	CAPP 158				S
CSCI 299	CSCI 121				S
ITS 140	CAPP 120				
ITS 161	CAPP 120				F
ITS 162	ITS 160				S
ITS 224					F, S
M 143	M095 or equivalent test score				F, F#, S, S#, X#
WRIT 121	WRIT 095, WRIT 104, or equivalent test score, CAPP 120				F, S, S#
Restricted Electives (3 cr)	May require CAPP 120				F, S

Program Specific Information

Students should know the following information:

- 1.) This program is difficult to do part time as classes from the previous semester are preparatory to the next semester.
- 2.) Courses in this program are frequently in the late afternoon or early evening.
- 3.) Restricted electives (3 credits required) must be chosen in consultation of a City College advisor.
- 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 the university campus MSUB. Students can work to complete General Education requirements and take upper division credits in areas of study which will complement their AAS credits already earned. There are a variety of options and thematic concentrations for completing the BAS degree. Please consult with an advisor for more information.



2013-2014 Computer Programming & Application Development AAS Plan of Study

City College

for _____

Date: _____

Semester (____)

Semester (____)

Course	Credits	Course	Credits
Total		Total	

Semester (____)

Semester (____)

Course	Credits	Course	Credits
CAPP 156	3	CAPP 158	3
CSCI 115	2	COMX 106	3
CSCI 110	3	CSCI 210	3
CMP 135	3	CSCI 120	3
ITS 161	3	ITS 162	3
M143	4	WRIT 121	3
Total		Total	

Semester (____)

Semester (____)

Course	Credits	Course	Credits
CSCI 111B	4	CSCI 114	3
CSCI 121	4	CSCI 240	3
CSCI 223	3	CSCI 299	3
CMP 236	3	ITS 140	4
ITS 224	3	Restricted Elective	3
Total		Total	

Number of earned credits that apply toward degree: _____

Number of credits left to earn for degree: _____

CERTIFICATION: The courses listed are **required** for the student's degree.

Advisor's Signature: _____ Date: _____

Student's Signature: _____ Date: _____