



MONTANA STATE UNIVERSITY-BILLINGS
COMPUTER PROGRAMMING and APPLICATION DEVELOPMENT
ASSOCIATE OF APPLIED SCIENCE

ADVISING WORKSHEET GENERAL BULLETIN 2008-2009

College of Technology
 Advising Center
 Phone: 406-247-3018/3020
 Fax: 406-652-1729

Name _____

Student ID # _____

This program begins 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
Preparatory Courses					
CMP	105	Introduction to Computers and Applications	3		

General Education Requirements

COMT	109	Human Relations	3		
ENGL	145	Technical Communication	3		
MATH	121	Finite Mathematics	4		

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

Required Courses

CMP	119	Excel	3		
CMP	135	Introduction to Web Design	3		
CMP	235	Advanced Web Design and Development	3		
CMP	262	Microsoft Access	3		
CST	130	Introduction to Scripting for the Windows Environment	3		
CST	160	Installing, Configuring, and Administering Microsoft Windows Vista	3		
CST	162	Installing, Configuring, and Administering Microsoft Windows Server 2003	3		
CST	211	Visual Basic .NET Capstone Project	3		
CST	220	Applied Introduction to Java	3		
CST	221	Applied Intermediate Java	3		

CST	231	Software Development and Documentation	3			
CST	233	Deploying Databases with Microsoft SQL Server	3			
CST	236	Creating Interactive Flash Applications and Games	3			
CST	244	Introduction to Programming Lab Companion Course	2			
CST	265	Applied Advanced Visual Basic .NET Programming	3			
CTBU	171	Introduction to Business	3			
*MIS	210	Systems Analysis and Design	3			
*MIS	245	Introduction to Programming	3			
*MIS	255	Object Oriented Programming	3			

* offered on the main campus

Restricted Electives – 6 credits required, chosen in consultation with an advisor

Restricted Electives to choose from:

DSGN 248	Computer Presentation and Animation.....	3
CMP 118	Word.....	3
CST 217	Microsoft Certified Application Developer Exam Preparation.....	2
CST 227	Sun Certified Java Programmer Exam Preparation.....	1
CST 182	Help Desk Support.....	3
CMP 121	Introduction to Microsoft Outlook.....	1
CST 168	Installing, Configuring, and Administering Linux.....	3
CST 169	Administering Web Servers.....	3

TOTAL MINIMUM CREDITS REQUIRED 72

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

Suggested Plan of Study

First Semester	Credits	Second Semester	Credits
CMP 119	3	CMP 262	3
CMP 135	3	CMP 235	3
MIS 245	3	MIS 255	3
CST 130	3	COMT 109	3
MATH 121	4	CST 160	3
CST 244	3	Restricted Elective	3
TOTAL	18	TOTAL	18

Third Semester	Credits	Fourth Semester	Credits
CST 220	3	CST 233	3
CST 231	3	CST 221	3
CST 236	3	CST 162	3
CST 265	3	CST 211	3
CTBU 171	3	ENGL 145	3
MIS 210	3	Restricted Elective	3
TOTAL	18	TOTAL	18