

STUDENT NAME _____ DATE _____

**Computer Applications: Database Systems Track A.A.S. at MC to
B.S. IN COMPUTER STUDIES AT UMUC**

This worksheet is designed to help you plan and track your progress toward your degrees. For full course descriptions, please refer to the current undergraduate *Catalog*.

Courses taken at Montgomery College
Changes in recommended courses may affect other elements of the degree plan. Lower level equivalents of UMUC upper level courses fulfill content requirements but not upper-level minimum credit requirements

 UMUC
Equivalent
Course

UMUC GER Requirement	GENERAL EDUCATION REQUIREMENTS (GER) (22 credits)	
English Writing GER	EN 101 Techniques of Reading and Writing I (3)	
WRTG 101 Writing GER	EN 102 Techniques of Reading and Writing II (3) <i>Recommended English foundation course</i>	WRTG 101
Mathematics GER	MA 110 Survey of College Math <i>or more advanced math (3) Math foundation course</i>	MATH 106
Speech/writing GER	SP 108, SP 112, or SP 212 (3) <i>Speech foundation course</i>	
First arts and humanities GER	AR 107, AR 108 or any HS (3) <i>Recommended arts or humanities distribution course</i>	
First social and behavioral sciences GER	Behavioral and social sciences distribution (3)	
Biological and physical science with lab GER	Natural Sciences lab distribution course (4)	
INTERDISCIPLINARY AND EMERGING ISSUES (1 credit)		
	Health foundation course (1)	
DATABASE SYSTEMS TRACK (26 credits)		
	CA 106 Computer Use and Management (3)	
	CA 140 Introduction to Programming (3) <i>Computing GER course at UMUC</i>	
	CA 141 Introduction to Database Applications (3)	
	CA 240 Advanced Database Applications (3)	
	CS 215 Visual Basic Programming (3)	
	◆ CA 272 Professional Web Site Development (4) <i>Supplemental major course</i>	◆ CMST 386
	◆ CA 278 Web Application Development Using ColdFusion (4) <i>Supplemental major course</i>	◆ CMST 498F
	CA 282 or CA 288 (3)	
DATABASE SYSTEMS ELECTIVES (12 credits)		
	CS 110 Computer Concepts (3) <i>Recommended Information Technology Elective. First computing GER for UMUC</i>	IFSM 201
	◆ CS 103 Computer Science I (4) <i>Recommended Information Technology Elective. Programming course for major</i>	◆ CMSC 130
	◆ CS 204 Computer Science II (4) <i>Recommended Information Technology Elective. Foundation course for major</i>	◆ CMSC 230
	Other electives (1)	
Credits transferred: 61 credits		

SEQUENCE at UMUC

Courses are listed in the order in which students should take them.
Changes in courses and order may affect other elements of the degree plan.

NOTES

ADDITIONAL REQUIRED GENERAL EDUCATION COURSES FOR DEGREE (9 credits)		
Biological and physical sciences GER	NSCI 100 or ASTR 100 (3) <i>Or other 3-credit biological/physical science GER course</i>	
Second social and behavioral sciences GER	ANTH 344 (3) <i>Or other upper-level behavioral/social science GER course from a second discipline</i>	UL
Second arts and humanities GER	Upper-level arts and humanities (3) <i>Must be from a second discipline</i>	UL
EMERGING ISSUES (1 credit) If requirement is completed in degree at community college, these credits may be used for electives		
LIBS 150 (1) <i>Required GER course</i>		
ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (21 credits)		
◆ IFSM 300 (3) <i>Or other foundation course (CMIS 241, CMST 340, CMSC 230, IFSM 310). Required for major</i>		UL
WRTG 393 or WRTG 393X (3) <i>Or other upper-level intensive writing GER course</i>		UL
◆ CMST 310 (3) <i>Or other upper-level supplemental course for major (any CMIS, CMIT, CMSC, CMST, IFSM)</i>		UL
◆ CMIS 416 (3) <i>Or other upper-level supplemental major course</i>		UL
◆ CMST 385 (3) <i>Or other upper-level supplemental major course</i>		UL
◆ CMIS 430 (3) <i>Or other upper-level supplemental major course</i>		UL
◆ CMST 450 or CMST 460 (3) <i>Or other upper-level supplemental major course</i>		UL
MINOR OR ELECTIVES (15 credits, at least 9 credits upper level for minor)		
See requirements of individual minor. Note minimum requirements for upper-level coursework.		UL
		UL
		UL
ADDITIONAL ELECTIVES (13 credits)		
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework.		UL
		UL
		UL
TOTAL: 120 CREDITS		
CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS See catalog for overview of all requirements.		
<input type="checkbox"/> 30 credits at UMUC, including at least half of the major and minor and 15 upper level credits. <input type="checkbox"/> 45 upper-level credits, including half the credit for the major and the minor. <input type="checkbox"/> All required courses <u>and</u> minimum number of credits for major and minor. <input type="checkbox"/> Prerequisites for major and minor courses, if needed.	<input type="checkbox"/> All General Education Requirements. <input type="checkbox"/> Grade of C or better in all courses for the major and minor. <input type="checkbox"/> Overall GPA of at least 2.0. <input type="checkbox"/> At least half the credit for the major earned through graded coursework. <input type="checkbox"/> Total 120 credits.	
NOTES:		