



STUDENT NAME \_\_\_\_\_ DATE \_\_\_\_\_

**Computer Applications: Database Systems Track A.A.S. at MC to  
B.S. IN CYBERSECURITY 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 GenEd Requirement	GENERAL EDUCATION REQUIREMENTS (GenEd) (22 credits)	
English Writing GenEd	EN 101 Techniques of Reading and Writing I (3)	
WRTG 101 Writing GenEd	EN 102 or EN 109 (3) <i>English foundation course</i>	WRTG 101
Mathematics GenEd	MA 110 Survey of College Mathematics (3) <i>Or more advanced math. Mathematics foundation course</i>	MATH 106
Speech/writing GenEd	SP 108 or SP 112 (3) <i>Speech foundation course</i>	
First arts and humanities GenEd	AR 107, AR 108, or any HS (3) <i>Recommended arts or humanities distribution course</i>	
First social and behavioral sciences GenEd	CJ 110 Administration of Justice (3) <i>Recommended behavioral and social sciences distribution course. Prerequisite for supplemental major course</i>	CCJS 100
Biological and physical science with lab GenEd	Natural sciences distribution with lab (4)	
<b>INTERDISCIPLINARY AND EMERGING ISSUES (1 credit)</b>		
	Health foundation course (1)	
<b>DATABASE SYSTEMS TRACK (38 credits)</b>		
	CA 106 Computer Use and Management (3)	
	CA 141 Introduction to Database Applications (3)	
	CA 240 Advanced Database Applications (3)	
	CA 272 Professional Web Site Development (4)	CMST 386
	CA 278 Web Application Development Using ColdFusion (4)	CMST 460
	CA 282 or CA 288 (3)	
	CS 140 Introduction to Programming (3) <i>First computing GenEd course at UMUC and prerequisite for major courses</i>	CMIS 102
	CS 215 Visual Basic Programming (3)	CMST 305
	CS 110 Computer Concepts (3) <i>Recommended Database System Elective. Second computing GenEd at UMUC and prerequisite for major courses</i>	IFSM 201
	Other electives (9)	
<b>Credits transferred: 61 credits</b>		
<b>Note: Up to 70 credits may be transferred from Montgomery College - meet with a UMUC adviser to discuss additional MC credits</b>		

**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)** If requirement is completed in degree at community college, these credits may be used for electives

Biological and physical sciences GenEd	NSCI 100 or ASTR 100 (3) <i>Or other 3-credit biological/physical science GenEd course</i>	
Second social and behavioral sciences GenEd	PSYC 100 or SOCY 100 (3) <i>Or other behavioral/social science GenEd course from a second discipline</i>	
Second arts and humanities GenEd	PHIL 315 (3) <i>Or other upper-level arts/humanities not ARTH or HIST</i>	UL

**EMERGING ISSUES (1 credit)**

LIBS 150 (1) *GenEd course*

**ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (33 credits)**

◆ CSIA 301 (3) <i>Required for major</i>	UL
IFSM 304 (3) <i>Required for major</i>	UL
◆ CSIA 302 (3) <i>or CMIT 265. Required for major</i>	
WRTG 393 (3) <i>Or other upper-level advanced writing GenEd course</i>	UL
◆ CSIA 303 (3) <i>Core course for major</i>	UL
◆ CSIA 412 (3) <i>Core course for major</i>	UL
◆ CSIA 413 (3) <i>Core course for major</i>	UL
◆ CMIT 320 (3) <i>Core course for major</i>	UL
◆ CMIT 424 (3) <i>Or other supplemental course for major (CCJS 421, CMIT 321, CMIT 425, CSIA 454, CSIA 457, CSIA 459, IFSM 432, IFSM 433)</i>	UL
◆ CSIA 457 (3) <i>Or other supplemental course for major</i>	UL
◆ IFSM 433 (3) <i>Or other supplemental course for major</i>	UL

**CAPSTONE COURSE FOR MAJOR (3 credits) To be taken after all other courses for the major**

◆ CSIA 485 (3) <i>Required course for major</i>	UL
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**MINOR OR ELECTIVES (13 credits, at least 9 credits upper-level for minor)**

See requirements of individual minor. 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.
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