

STUDENT NAME _____ DATE _____

**Computer Science A.A. at Montgomery College to
B.S. IN COMPUTER AND INFORMATION SCIENCE AT UMUC**

This worksheet is designed to help you plan and track your progress toward your degree. It lists all of the graduation requirements in the recommended sequence. For full course descriptions, please refer to the current undergraduate *Catalog*.

Courses taken at Montgomery College
Changes in courses may affect other elements of the degree plan.

 UMUC
Equivalent
Course

GENERAL EDUCATION REQUIREMENTS (GenEd) (32 credits)		
UMUC General Education Requirements (GenEd) * FULFILLED * with completion of A.S. or A.A.	EN 102 or EN 109 (3) <i>English foundation course</i>	WRTG 101
	MA 181 Calculus I (4) <i>Math foundation course and prerequisite for CS 103</i>	MATH 140
	SP 108 or SP 112 (3) <i>Speech foundation course</i>	
	Arts distribution (3)	
	Humanities distribution (3) <i>Not History</i>	
	AR 107, AR 108, or any HS (3) <i>Recommended arts or humanities distribution course</i>	
	Behavioral and social sciences distribution (3)	
	Behavioral and social sciences distribution (3) <i>Must be from a second discipline</i>	
	Natural sciences distribution with lab (4)	
	Natural sciences distribution without lab (3)	
INTERDISCIPLINARY AND EMERGING ISSUES (1 credit)		
Health foundation course (1)		
COMPUTER SCIENCE CORE REQUIREMENTS (16 credits)		
◆ CS 103 Computer Science I (4) <i>First course in programming language sequence for major. Taken in lieu of CMIS 141</i>		◆ CMSC 130
◆ CS 204 Computer Science II (4) <i>Note prerequisite of MA 182. Second course in programming language sequence for major. Taken in lieu of CMIS 242</i>		◆ CMSC 230
CS 256 Introduction to Discrete Structures (4)		CMSC 150
MA 182 Calculus II (4) <i>Prerequisite for CS 204</i>		MATH 141
COMPUTER SCIENCE ELECTIVES (11 credits)		
CS 110 Computer Concepts (3) <i>Recommended computer science elective. First computing GenEd at UMUC</i>		IFSM 201
CS 140 Introduction to Programming (3) <i>Recommended computer science elective. Second computing GenEd at UMUC and prerequisite for major courses</i>		CMIS 102
CS 136, 210, 216, 226, 249, 269, or MA 284 (3) <i>Computer science elective</i>		
CS 136, 210, 216, 226, 249, 269, or MA 284 (2) <i>Computer science elective</i>		
Credits transferred: 60 credits		
Note: Up to 70 credits may be transferred from Montgomery College - meet with a UMUC adviser to discuss additional MC credits		

SEQUENCE at UMUC	NOTES
<i>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.</i>	

EMERGING ISSUES (1 credit)	
LIBS 150 (1) <i>GenEd course</i>	
ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (27 credits)	
WRTG 291 (3) <i>Or other writing GenEd course except WRTG 486A/B or MC – EN 101 Techniques of Reading & Writing I</i>	
◆ CMIS 111 or CMIS 170 (3) <i>Required introductory major course</i>	
◆ CMIS 320 (3) <i>Required core course for major</i>	UL
WRTG 393 (3) <i>Or other upper-level advanced writing GenEd course</i>	UL
◆ CMIS 330 (3) <i>Required core course for major</i>	UL
◆ CMIS 310 (3) <i>Or other supplemental major course (CMIS 102, 255, 315, or 325)</i>	UL
◆ CMIS 325 (3) <i>Or other supplemental major course</i>	UL
◆ CMIS 420 (3) <i>Or any other 400-level CMIS course except CMIS 486A/B</i>	UL
◆ CMIS 485 (3) <i>Or any other 400-level CMIS course except CMIS 486A/B</i>	UL
CAPSTONE COURSE FOR MAJOR (3 credits) To be taken after all other courses for the major	
◆ CMSC 495 (3) <i>Required capstone course for major</i>	UL
MINOR OR ELECTIVES (15 credits, at least 9 credits upper-level for minor)	
See requirements of individual minor. Recommended minor: computing	UL
	UL
	UL
	UL
	UL
ADDITIONAL ELECTIVES (14 credits)	
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework. Recommended elective: WRTG 490	UL
	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:	