



STUDENT NAME _____ DATE _____

Computer Science A.S. at Harford Community College to B.S. IN COMPUTER SCIENCE 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 Harford Community College <i>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</i>	UMUC Equivalent Course
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GENERAL EDUCATION REQUIREMENTS (GER) (26-27 credits)		
UMUC General Education Requirements (GER) * FULFILLED * with completion of A.S. or A.A.	ENG 101 English Composition (3)	WRTG 101
	MATH 206 Calculus III or MATH 217 Linear Algebra (4)	MATH 241 or MATH 240
	ART 201, ART 202, or ART 203 (3) <i>Recommended Arts/Humanities elective to meet UMUC historic requirement. ART 201 and ART 202 meet Harford diversity requirement</i>	
	Arts/Humanities elective (3) <i>Must be from two different disciplines. If not already complete, student must complete Harford diversity requirement here.</i>	
	PSY 101 or SOC 101 or any GB except HIST (3) <i>Recommended Behavioral/Social Science elective</i>	PSYC 100 or SOCY 100
	Behavioral/Social Science elective (3) <i>Must be from a second discipline</i>	
	Bio./Phys. Lab Science elective (4)	
	Bio./Phys. Science elective (3-4)	
INTERDISCIPLINARY AND EMERGING ISSUES GERs (2 credits)		
PE Fitness elective (1)		
PE elective (1)		
COMPUTER SCIENCE RELATED COURSES (38 credits)		
CIS 115 Fundamentals of Programming (3) <i>Second computing GER course at UMUC</i>		CMSC 102
CIS 201 Assembly Programming Language (4)		CMIS 211
CIS 205 or other Programming Language (4)		
◆ CIS 214 Java Programming Language (4) <i>Recommended choice. Required for major</i>		◆ CMSC 130
CIS 221 C++ Programming Language (4)		
CSI 131 Computer Science I (4)		CMIS 140
◆ CSI 132 Computer Science II (4) <i>Required for major</i>		◆ CMSC 230
◆ MATH 203 Calculus I (4) <i>Required for major</i>		◆ MATH 140
◆ MATH 204 Calculus II (4) <i>Required for major</i>		◆ MATH 141
◆ MATH 210 Discrete Structures (3) <i>Required for major</i>		◆ CMSC 150
Credits transferred: (66-67 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 (4 credits)	
LIBS 150 (1) <i>Required GER course</i>	
CMST 303 (3) <i>Or IFSM 201. Required computing GER course. Note UL requirements</i>	UL
ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (27 credits)	
WRTG 291 (3) <i>Or other writing GER course except WRTG 288, 388 or WRTG 486A/B</i>	
WRTG 390 or upper-level SPCH (3) <i>Or other upper-level writing or speech GER course</i>	UL
WRTG 393 or WRTG 393X (3) <i>Or other upper-level advanced writing GER course</i>	UL
◆ CMSC 311 (3) <i>Or any 300-level CMSC course</i>	UL
◆ CMSC 330 (3) <i>Required for major</i>	UL
◆ CMSC 335 (3) <i>Required for major</i>	UL
◆ CMSC 415 (3) <i>Or other supplemental major course (Any 400-level CMSC except CMSC 486A/B)</i>	UL
◆ CMSC 480 (3) <i>Or other supplemental major course</i>	UL
◆ CMSC 425 (3) <i>Or other supplemental major course</i>	UL
CAPSTONE COURSE FOR MAJOR (3 credits) <i>To be taken after all other courses for the major</i>	
◆ CMSC 495 (3) <i>Capstone course for major</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
Recommended minors: computing, mathematics.	UL
	UL
	UL
	UL
ADDITIONAL ELECTIVES (4-5 credits)	
Choose any courses to meet 120 credits for degree	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:	