



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 (GenEd) (26-27 credits)		
UMUC General Education Requirements (GenEd) * FULFILLED * with completion of A.S. or A.A.	ENG 101 English Composition (3)	WRTG 101
	Behavioral/Social Science elective (3) <i>(Not HIST)</i>	
	Biological/Physical Science elective (3-4)	
	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>	
	MATH 206 Calculus III or MATH 217 Linear Algebra (4)	MATH 240
	Biological/Physical Lab Science elective (4)	
	Arts/Humanities elective (3) <i>Must be from a second discipline. If not already complete, student must complete Harford diversity requirement here.</i>	
	Behavioral/Social Science elective (3) <i>Must be from a second discipline (Not HIST)</i>	
INTERDISCIPLINARY AND EMERGING ISSUES (2 credits)		
PE Fitness elective (1)		
PE elective (1)		
COMPUTER SCIENCE RELATED COURSES (38 credits)		
◆ MATH 203 Calculus I (4) <i>Required mathematics course for major</i>		◆ MATH 140
CIS 115 Fundamentals of Programming (3) <i>Second computing GenEd course at UMUC. Prerequisite for major course</i>		CMIS 102
CIS 201 Assembly Programming Language (4)		CMIS 211
CSI 131 Computer Science I (4)		CMIS 140
◆ MATH 204 Calculus II (4) <i>Required mathematics course for major</i>		◆ MATH 141
CIS 221 C++ Programming Language (4)		CMIS 315
CIS 205 or CIS Programming Language elective (4)		CMST 306
CSI 132 Computer Science II (4) <i>Required course for major</i>		CMIS 240
◆ CIS 214 Java Programming Language (4) <i>Required foundation course for major</i>		◆ CMIS 141
◆ MATH 210 Discrete Structures (3) <i>Required foundation course 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 GenEd course</i>	
CMST 303 (3) <i>Or IFSM 201. Required computing GenEd course. Note UL requirements</i>	UL
ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (30 credits)	
WRTG 291 (3) <i>Or other writing GenEd course except WRTG 486A/B</i>	
◆ CMIS 242 (3) <i>Required foundation course for major</i>	
WRTG 390 or SPCH 482 (3) <i>Or other upper-level writing or speech GenEd course</i>	UL
WRTG 393 <i>Or other upper-level advanced writing GenEd course</i>	UL
◆ CMSC 330 (3) <i>Required core course for major</i>	UL
◆ CMSC 335 (3) <i>Required core course for major</i>	UL
◆ CMSC 350 (3) <i>Required core course for major</i>	UL
◆ CMIS 310 (3) <i>Or other supplemental major course (CMSC 325 or CMIS 330)</i>	UL
◆ CMSC 451 (3) <i>Or other 400-level supplemental major course (any 400-level CMSC course except CMSC 486A/B)</i>	UL
◆ CMSC 465 (3) <i>Or other 400-level 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>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. Note minimum requirements for upper-level coursework.	UL
Recommended minors: computing, mathematics	UL
	UL
	UL
	UL
ADDITIONAL ELECTIVES (1-2 credits)	
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework.	
Complete in last 60 credits along with major and minor courses.	
EDTP 500 and EDTP 535 may be available electives for eligible students interested in pursuing the Master of Arts in Teaching.	
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:	