



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

## Computer Programming A.A.S. at CSM 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 College of Southern Maryland**

*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

*Recommended courses are those courses that best fulfill both UMUC and CSM graduation and major requirements. Other options may be available.*

UMUC GER Requirement	GENERAL EDUCATION REQUIREMENTS (GER) (22 credits)	
ENGL 101 Writing GER	ENG 1010 Composition and Rhetoric (3) <i>Communications GER</i>	ENGL 101
English Writing GER	ENG 2050 Business /Technical Writing (3) <i>Communications/Writing GER</i>	COMM 293
Speech/writing GER	COM 1010, COM 1250, COM 1350, or COM 1450 (3) <i>Recommended humanities/communications GER. Communications/Speech GER</i>	
Mathematics GER	MTH 1120 College Algebra <i>or more advanced math gen. ed. (3) Recommended MTH. Related requirement for major. Student may take MTH 1100 to fulfill GER requirement, but will be required to take an additional math to meet major requirements</i>	MATH 107
Biological and Physical Sciences GER	Biological and Physical Sciences gen. ed. (3) <i>Biological and Physical Sciences GER</i>	
Biological and Physical Science with Lab GER	Biological and Physical Science with Laboratory gen. ed. (4) <i>Recommended elective</i>	
First social and behavioral sciences GER	Social/behavioral science gen. ed. (3) <i>Social and behavioral sciences GER</i>	
<b>COMPUTER RELATED COURSES (38 credits)</b>		
ACC 2010 Principles of Accounting I (3)		ACCT 201
◆ ITS 1015 The Information Age: Emerging Technologies (3) <i>First course for UMUC major</i>		◆ IFSM 201
ITS 1020 Operating Systems Concepts (3)		
ITS 1040 Systems Analysis and Design (3)		
◆ ITS 1110 Program Design and Development (3)		◆ CMIS 102
◆ ITS 1120 Introduction to Database (3) <i>Supplemental UMUC major course</i>		◆ IFSM 410
ITS 2120 Local Area Network Administration (3)		
ITS 2250 Data Communications (3)		
MTH 2300 Introduction to Statistics (3) <i>Recommended second mathematics</i>		
Specialization area/Programming Language (3) <i>ITS 2490, ITS 2492, ITS 2591, ITS 2592, or ITS 2690</i>		
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Other electives (2) <i>Electives</i>		
<b>Credits transferred: 60 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**

<b>ADDITIONAL REQUIRED GENERAL EDUCATION COURSES FOR DEGREE (9 credits)</b>																
First arts and humanities GER	PHIL 140 or foreign language course (3) <i>Or other first arts/humanities GER course</i>															
Second social and behavioral sciences GER	ANTH 344 (3) <i>Or other second upper-level behavioral/social science GER course (discipline must differ from first) and other international perspective course</i>	UL														
Second arts and humanities GER	UL HIST or ARTH (3) <i>Or other second arts/humanities course (discipline must differ from first) and other historical perspective course</i>	UL														
<b>CROSS-CURRICULAR INITIATIVES AND EMERGING ISSUES (4 credits)</b> If requirement is completed in degree at community college, these credits may be used for electives																
LIBS 150 (1) <i>Required GER course</i>																
IFSM 304 (3) <i>Or other civic responsibility course</i>		UL														
<b>ADDITIONAL REQUIRED COURSES FOR MAJOR AND DEGREE (24 credits)</b>																
◆ CMIS 141 or CMIS 141A (3) <i>Or CMST 306 (but note prerequisites for later courses). Required for major</i>																
◆ CMIS 241 (3) <i>Or other foundation course for the major (IFSM 300, 310; CMST 340)</i>																
◆ IFSM 300 (3) <i>Or other foundation course (IFSM 310 or CMST 340). Required for major</i>		UL														
COMM 393 or COMM 393X (3) <i>Or other upper-level intensive writing GER course</i>		UL														
◆ CMST 306 (3) <i>Or other supplemental course for major (any CMIS, CMIT, CMSC, CMST, IFSM)</i>		UL														
◆ CMIS 345 (3) <i>Or other upper-level supplemental major course</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														
<b>MINOR OR ELECTIVES (15 credits, at least 9 credits upper level for minor) Complete in last 60 hours along with major courses.</b>																
See requirements of individual minor.		UL														
		UL														
		UL														
		UL														
		UL														
<b>ADDITIONAL ELECTIVES (8 credits)</b>																
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework.		UL														
<b>TOTAL: 120 CREDITS</b>																
<b>CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS See catalog for overview of all requirements.</b>																
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