

**CENTRAL TEXAS COLLEGE
AS IN COMPUTER SCIENCE
TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE
BS IN SOFTWARE DEVELOPMENT AND SECURITY
TRANSFER GUIDE**

CHECKLIST FOR FULFILLMENT OF DEGREE REQUIREMENTS See catalog for overview of all requirements.

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| <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 for the minor.
<input type="checkbox"/> All required courses and 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 WRTG 112
<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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UMUC DEGREE REQUIREMENTS	CTC COURSES	UMUC EQUIVALENCY	CREDITS FROM CTC	CREDITS NEEDED AT UMUC
COMMUNICATIONS		Credits:		6
			6	6
WRTG 112 (3) <i>Required GenEd course. Must be completed with a grade of C- or better</i>				3
WRTG 111 (3) <i>Or other 3-credit WRTG course except 288, 388, 486A, 486B. COMM 390 and 492, ENGL 102 and JOUR 201 apply</i>	ENGL 1301	WRTG	3	
SPCH 100 (3) <i>Or other communication, writing, or speech GenEd course</i>	SPCH 1318 or 1321	SPCH 125 or SPCH	3	
WRTG 393 (3) <i>or other UL advanced writing (WRTG 391 or WRTG 394)</i>				3UL
ARTS AND HUMANITIES		Credits:		6
			6	0
HIST 125 (3) <i>Or other arts/humanities GenEd course</i>	HIST 1301	HIST 156	3	
HUMN 100 (3) <i>Or other arts/humanities GenEd course</i>	HUMA 1315	ARTT 205	3	
BEHAVIORAL AND SOCIAL SCIENCES		Credits:		6
			6	0
ECON 103 (3) <i>Or other behavioral/social science GenEd course</i>	GOVT 2305	GVPT 170	3	
BEHS 103 (3) <i>Or other behavioral/social science GenEd course</i>	PSYC 2315	PSYC 101	3	
BIOLOGICAL AND PHYSICAL SCIENCES		Credits:		7
			7	0
BIOL 101/102 or NSCI 100/101 (4) <i>Or other biological/physical science GenEd course with related lab</i>	PHYS 1415	NSCI 100	4	
GEOL 100 (3) <i>Or other 3-credit biological/physical science GenEd course</i>	ENVR 1401	BIOL 211	3	
MATHEMATICS		Credits:		3
			3	0
MATH 106 (3) <i>or other approved math GenEd course (MATH 106, MATH 107, STAT 200, or more advanced MATH or STAT)</i>	MATH 1314 Recom'd Math option	MATH 107	3	
INTERDISCIPLINARY OR EMERGING ISSUES		Credits:		6
			6	1
LIBS 150 (1) <i>GenEd course</i>				1
IFSM 201 or CMST 301 (3) <i>First computing GenEd course</i>	COSC 1301	IFSM 201	3	
CMIS 102 (3) <i>Second computing GenEd course and prerequisite for major courses</i>	COSC 1336	CMIS 102	3	

Legend/Notes

- ◆ *required course for the major or minor*
- * *course meets content requirement but not upper-level minimum*
- UL – *UL stands for upper-level junior/senior courses (300- or 400- level) & denotes the minimum upper-level credit that must be taken at UMUC for graduation*

Courses placed in the ELECTIVES/MINOR section may meet degree requirements depending on which course the student takes from the list of courses offered for the associate's degree. Any credit applied to the associate's degree must also meet UMUC's transfer credit policy.

UMUC DEGREE REQUIREMENTS	CTC COURSES	UMUC EQUIVALENCY	CREDITS FROM CTC	CREDITS NEEDED AT UMUC
SOFTWARE DEVELOPMENT AND SECURITY MAJOR (33 cr.)	Credits:		6	24
◆ CMIS 141 Introductory Programming (3)	COSC 1337	CMIS 141	3	
◆ CMIS 242 Intermediate Programming (3)	COSC 2336	CMIS 242	3	
◆ CMIS 320 Relational Database Concepts and Applications (3)				3UL
◆ SDEV 300 Building Secure Web Applications (3)				3UL
◆ SDEV 325 Detecting Software Vulnerabilities (3)				3UL
◆ SDEV 350 Database Security (3)				3UL
◆ SDEV 360 Secure Software Engineering (3)				3UL
◆ SDEV 400 Secure Programming in the Cloud (3)				3UL
◆ SDEV 425 Mitigating Software Vulnerabilities (3)				3UL
◆ SDEV 460 Software Security Testing (3)				3UL
CAPSTONE COURSE FOR MAJOR	Credits:		0	3
◆ CMSC 495 Current Trends & Projects in Computer Science (3)	MUST BE TAKEN AT UMUC			3UL
ELECTIVES / MINOR	Credits:		20	26
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.	COSC 1315	CMIS 116TR	3	
	ANTH 2351	ANTH 102	3	
	HIST 1302	HIST 157	3	
	COSC 2325	CMIS 310*	3	
	GOVT 2306	GVPT	3	
	ENVR 1401	BIOL 211	1	
	Component Area Option	Elective	4	
Upper-Level Electives at UMUC				15UL
Any Electives at UMUC				11
Total Minimum Credits Needed for Graduation: 120	Total Credits:		60	60