CENTRAL TEXAS COLLEGE
AS IN COMPUTER SCIENCE
TO UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE
BS IN COMPUTER SCIENCE
TRANSFER GUIDE

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

- ☐ 30 credits at UMUC, including at least half of the major and minor and 15 upper level credits.
- ☐ 45 upper-level credits, including half the credit for the major and for the minor.
- ☐ All required courses and minimum number of credits for major and minor.
- ☐ Prerequisites for major and minor courses, if needed.
- ☐ All General Education Requirements.

- ☐ Grade of C- or better in WRTG 112
- ☐ Grade of C or better in all courses for the major and minor.
- ☐ Overall GPA of at least 2.0.
- ☐ At least half the credit for the major earned through graded coursework.
- ☐ Total 120 credits.

UMUC DEGREE REQUIREMENTS	CTC COURSES	UMUC EQUIVALENCY	CREDITS FROM CTC	CREDITS NEEDED AT UMUC
COMMUNICATIONS		**Credits:**	**6**	**6**
WRTG 112 (3) *Required GenEd course. Must be completed with a grade of C- or better*				3
WRTG 111 (3) *Or other 3-credit WRTG course except 288, 388, 486A, 486B. COMM 390 and 492, ENGL 102 and JOUR 201 apply*	ENGL 1301	WRTG	3	
SPCH 100 (3) *Or other communication, writing, or speech GenEd course*	SPCH 1318 or 1321	SPCH 125 or SPCH	3	
WRTG 393 (3) *or other UL advanced writing (WRTG 391 or WRTG 394)*				3UL
ARTS AND HUMANITIES		**Credits:**	**6**	**0**
HIST 125 (3) *Or other arts/humanities GenEd course*	HIST 1301	HIST 156	3	
HUMN 100 (3) *Or other arts/humanities GenEd course*	HUMA 1315	ARTT 205	3	
BEHAVIORAL AND SOCIAL SCIENCES		**Credits:**	**6**	**0**
ECON 103 (3) *Or other behavioral/social science GenEd course*	GOVT 2305	GVPT 170	3	
BEHS 103 (3) *Or other behavioral/social science GenEd course*	PSYC 2315	PSYC 101	3	
BIOLOGICAL AND PHYSICAL SCIENCES		**Credits:**	**7**	**0**
BIOL 101/102 or NSCI 100/101 (4) *Or other biological/physical science GenEd course with related lab*	PHYS 1415	NSCI 100	4	
GEOL 100 (3) *Or other 3-credit biological/physical science GenEd course*	ENVR 1401	BIOL 211	3	
MATHEMATICS		**Credits:**	**0**	**4**
MATH 140 (4) *Related 4 cr. requirement for major & GenEd course*				4
INTERDISCIPLINARY OR EMERGING ISSUES		**Credits:**	**6**	**1**
LIBS 150 (1) *GenEd course*				1
IFSM 201 or CMST 301 (3) *First computing GenEd course*	COSC 1301	IFSM 201	3	
CMIS 102 (3) *Second computing GenEd course and prerequisite for major courses*	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
COMPUTER SCIENCE MAJOR (36 Credits)		**Credits:**	**9**	**24**
◆ CMIS 141 Introductory Programming (3)	COSC 1337	CMIS 141	3	
◆ CMIS 242 Intermediate Programming (3)	COSC 2336	CMIS 242	3	
◆ CMIS 310 Computer Systems and Architecture (3)	COSC 2325	CMIS 310*	3	
◆ SDEV 300 Building Secure Web Applications (3)				3UL
◆ CMSC 350 Data Structures and Analysis (3)				3UL
◆ CMSC 330 Advanced Programming Languages (3)				3UL
◆ CMSC 335 Object-Oriented and Concurrent Programming (3)				3UL
◆ CMSC 430 Compiler Theory and Design (3)				3UL
◆ CMSC 451 Design and Analysis of Computer Algorithms (3)				3UL
◆ CMSC 412 Operating Systems (3)				3UL
◆ CMSC 405 Computer Graphics (3)				3UL
CAPSTONE COURSE FOR MAJOR		**Credits:**	**0**	**3**
◆ CMSC 495 Current Trends and Projects in Computer Science (3)	**MUST BE TAKEN AT UMUC**			3UL
ADDITIONAL REQUIREMENTS (10 Credits)		**Credits:**	**0**	**10**
MATH 108 (3) *Prerequisite to MATH 140 along with MATH 107*				3
MATH 141 Calculus II (4) *Related requirement for major*				4
CMSC 150 Introduction to Discrete Structures (3) *Related requirement for major*				3
ELECTIVES / MINOR		**Credits:**	**18**	**15**
Choose any courses to meet 120 credits for degree. Note minimum requirements for upper-level coursework.	COSC 1315	CMIS 116TR	3	
	MATH 1314 Recom'd Math option	MATH 107	3	
Complete in last 60 credits along with major and minor courses.	ANTH 2351	ANTH 102	3	
	HIST 1302	HIST 157	3	
**The 2+ notation on the Component Area Option course shows that there may be only 2 credit transferred from this course, dependent upon which course is taken, in order to leave room for the required 45 upper-level credits needed for a UMUC bachelor's degree. It is possible that more than 1 credit could transfer dependent on what is taken for the A.S. degree at CTC.	GOVT 2306	GVPT	3	
	ENVR 1401	BIOL 211	1	
	Core Component Option**	Elective	2+	
Upper-Level Electives at UMUC				15UL
Any Electives at UMUC				
Total Minimum Credits Needed for Graduation: 120		**Total Credits:**	**58**	**62**