



**TIDEWATER COMMUNITY COLLEGE
AAS IN INFORMATION SYSTEMS TECHNOLOGY
WITH CAREER STUDIES IN CYBER SECURITY
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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|---|---|
| <ul style="list-style-type: none"> <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 <u>and</u> minimum number of credits for major and minor. <input type="checkbox"/> Prerequisites for major and minor courses, if needed. | <ul style="list-style-type: none"> <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"/> Grade of C- or better for WRTG 101 <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 | TCC COURSES | UMUC EQUIVALENCY | CREDITS FROM TCC | CREDITS NEEDED AT UMUC |
|---|------------------------------------|-----------------------|------------------|------------------------|
| | | Credits: | 9 | 3 |
| COMMUNICATIONS | | | | |
| WRTG 101 (3) | ENG 111 | WRTG 101 | 3 | |
| WRTG 100A (3) <i>Or other 3-credit WRTG course except 288, 388, 486A, 486B, COMM 390 and 492. ENGL 102 and JOUR 201 apply</i> | ENG 112 | WRTG | 3 | |
| COMM 202 (3) <i>Or other communication, writing, or speech</i> | AST 205 | WRTG 293 | 3 | |
| WRTG 393 (3) <i>Or other upper-level advanced writing</i> | | | | 3UL |
| | | Credits: | 3 | 3 |
| ARTS AND HUMANITIES | | | | |
| HUMN 100 (3) <i>Or other arts/humanities</i> | Humanities Elective except CST 229 | Arts & Humanities | 3 | |
| HIST 365 (3) <i>Or other upper-level arts/humanities</i> | | | | 3UL |
| | | Credits: | 3 | 3 |
| BEHAVIORAL AND SOCIAL SCIENCES | | | | |
| ECON 103 (3) <i>Or other behavioral/social science</i> | ECO 120, 201, or 202 | ECON, ECON 201 or 203 | 3 | |
| GVPT 401 (3) <i>Or other upper-level behavioral/social science</i> | | | | 3UL |
| | | Credits: | 0 | 7 |
| BIOLOGICAL AND PHYSICAL SCIENCES | | | | |
| BIOL 103 (4) <i>Or other biological/physical science with related lab</i> | | | | 4 |
| NSCI 362 (3) <i>Or other upper-level 3-credit biological/physical science</i> | | | | 3UL |
| | | Credits: | 3 | 0 |
| MATHEMATICS | | | | |
| MATH 106 (3) <i>or other approved math GenEd course (MATH 106, MATH 107, STAT 200, or more advanced MATH or STAT)</i> | MTH 163 | MATH 107 | 3 | |
| | | Credits: | 8 | 1 |
| INTERDISCIPLINARY OR EMERGING ISSUES | | | | |
| LIBS 150 (1) | | | | 1 |
| IFSM 201 or CMST 301 (3) | ITE 115 | IFSM 201 | 4 | |
| CMIS 102 (3) <i>Prerequisite for major courses</i> | ITP 100 | CMIS 102 | 4 | |

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 and denotes the minimum upper-level credit that must be taken at UMUC for graduation
- ^ only 21 credits of vocational technical are permitted for transfer at UMUC
- +In order to meet the 45 upper-level semester hour credits required for a bachelor's degree some credits may not transfer.

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 | TCC COURSES | UMUC EQUIVALENCY | CREDITS FROM TCC | CREDITS NEEDED AT UMUC |
|--|------------------------------|------------------|------------------|------------------------|
| SOFTWARE DEVELOPMENT AND SECURITY MAJOR | Credits: | | 0 | 30 |
| ◆ CMIS 141 Introductory Programming (3) | | | | 3 |
| ◆ CMIS 242 Intermediate Programming (3) | | | | 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: | | 38 | 6 |
| Choose any electives to meet degree requirements. Note minimum requirements for upper-level coursework. See requirements of individual minor. | ITN 101 | CMIT 265 | 4 | |
| | ITN 106 | CMIT | 4 | |
| | ITN 107 | CMIT 202 | 4 | |
| | SDV 101 (1) | Elective | 0+ | |
| | ITN 260 | CMIT 320* | 4 | |
| | ITN 267 | CSIA | 3 | |
| | ITN 261 | CMIT | 4 | |
| | ITN 262 | CMIT | 4 | |
| | BUS 100 | BMGT 110 | 3 | |
| | FIN 115 (2) | FINC | 0+ | |
| | ITN 263 | CMIT | 4 | |
| | IT Approved Elective | Elective | 4 | |
| | | | | |
| | | | | |
| Upper-Level Electives at UMUC | | | | 6UL |
| Any Electives at UMUC | | | | |
| Total Minimum Credits Needed for Graduation: 120 | Total Credits: | | 64 | 56 |