## UMGC Degree Requirements

### Communications

- **WRTG 112 (3)** Required GenEd course. Must be completed with a grade of C- or better.
  - AACC Course: ENG 102
  - UMGC Equivalency: WRTG 112
  - Credits: 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.
  - AACC Course: ENG 101 or ENG 101A
  - UMGC Equivalency: WRTG 111
  - Credits: 3

- **COMM 300 (3)** Or other upper-level communication, writing, or speech GenEd course
  - Credits: 3UL

- **WRTG 393 (3)** Or other upper-level advanced writing GenEd course
  - Credits: 3UL

### Arts and Humanities

- **HIST 365 (3)** Or other upper-level arts/humanities GenEd course
  - Credits: 3

- **HUMN 100 (3)** Or other arts/humanities GenEd course
  - AACC Course: CTP 194
  - UMGC Equivalency: IFSM 304*
  - Credits: 3

### Behavioral and Social Sciences

- **ECON 103 (3)** Or other behavioral/social science GenEd course
  - AACC Course: Social & Behavioral Science
  - UMGC Equivalency: Behavioral & Social Science
  - Credits: 3

- **BEHS 103 (3)** Or other behavioral/social science GenEd course
  - AACC Course: CJS 111
  - UMGC Equivalency: CCJS 100
  - Credits: 3

### Biological and Physical Sciences

- **BIOL 101/102 or NSCI 100/101 (4)** Or other biological/physical science GenEd course with related lab
  - Credits: 4

- **GEOL 100 (3)** Or other 3-credit biological/physical science GenEd course
  - AACC Course: BIO 135
  - UMGC Equivalency: NUTR
  - Credits: 3

### Mathematics

- **MATH 107 (3)** or other approved math GenEd course (MATH 105, MATH 107, STAT 200, or more advanced MATH or STAT)
  - AACC Course: MAT 137 Recom’d or Higher Math
  - UMGC Equivalency: MATH 107
  - Credits: 3

### Interdisciplinary or Emerging Issues

- **LIBS 150 or CAPL 398A (1)** Or other GenEd elective
  - AACC Course: CTS 120
  - UMGC Equivalency: CMIS 325*
  - Credits: 1

- **PACE 111T (3)** Or other PACE 111 course chosen from 111B, 111C, 111M, 111P, 111S, or 111T
  - Credits: 3

- **IFSM 201 (3)** Technology GenEd course and prerequisite to major courses
  - Credits: 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 UMGC 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 degree. Any credit applied to the associate degree must also meet UMGC’s transfer credit policy.
## UMGC Degree Requirements

### Computer Networks and Cybersecurity Major (33 cr.)

<table>
<thead>
<tr>
<th>Course</th>
<th>AACC Course</th>
<th>UMGC Equivalency</th>
<th>Credits from AACC</th>
<th>Credits Needed at UMGC</th>
</tr>
</thead>
<tbody>
<tr>
<td>CMIT 202 Fundamentals of Computer Troubleshooting (3)</td>
<td></td>
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<td>12</td>
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<tr>
<td>CMIT 265 Fundamentals of Networking (3)</td>
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<tr>
<td>CMIT 320 Network Security (3)</td>
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<tr>
<td>CMIT 321 Ethical Hacking (3)</td>
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<tr>
<td>CMIT 350 Interconnecting Cisco Devices (3)</td>
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<tr>
<td>CMIT 369 Windows Server: Install and Storage (3)</td>
<td>CTS 110</td>
<td>CMIT 265</td>
<td>4</td>
<td>3</td>
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<tr>
<td>CMIT 391 Linux System Administration (3)</td>
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</table>

- **Any upper-level CMIT or CCJS 321 (9 credits)**

### Recommended Areas of Study

**Microsoft**

- CMIT 370 Administering Windows Server
- CMIT 371 Configuring Advanced Windows Server Services
- CMIT 372 Designing and Implementing a Server Infrastructure
- CMIT 373 Implementing an Advanced Server Infrastructure

**Cisco**

- CMIT 451 Implementing Cisco IP Routing
- CMIT 452 Implementing Cisco IP Switched Networks
- CMIT 453 Troubleshooting and Maintaining Cisco IP Networks
- CMIT 454 Cisco CDNNA Security

**Network Security**

- CMIT 370 Administering Windows Server
- CMIT 451 Implementing Cisco IP Routing
- CMIT 425 Advanced Information Systems Security

**Digital Forensics**

- CCJS 321 Digital Forensics in the Criminal Justice System
- CMIT 424 Digital Forensics Analysis and Application
- CMIT 440 Mobile Forensics
- CMIT 460 Network Forensics

### Capstone Course for Major

- CMIT 495 Current Trends and Projects in Computer Networks and Security (3) **Required capstone course for major**

**MUST BE TAKEN AT UMGC**

### Electives/Minor

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits from AACC</th>
<th>Credits Needed at UMGC</th>
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</thead>
<tbody>
<tr>
<td>CTS 107 CMIT</td>
<td>3</td>
<td>3UL</td>
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<tr>
<td>CTS 120 CMIS 325*</td>
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<tr>
<td>CTS 209 CMIT</td>
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</tr>
<tr>
<td>CTS 242 CMIT 321*</td>
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<tr>
<td>Program Electives**</td>
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</tr>
</tbody>
</table>

- **Total Minimum Credits Needed for Graduation: 120**
- **Total Credits:** 60

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Upper-level CMIT Courses to meet upper-level requirement for the major at UMGC: CMIT 440 or 460

Upper-Level Electives at UMGC: 18UL

Any Electives at UMGC: 2UL

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A student's catalog year may change based on the date of enrollment/registration with UMGC. Please check with an advisor when ready to apply with UMGC.