

Information Technology – Cybersecurity AAS (ITCS)

| Catalog: 2020-2021 | | | | Effective Date: 9/01/2017 | | | | |
|--------------------|--|--|------------------------------|---------------------------|----------|--|--|--|
| CR | COURSE | COURSE TITLE | SUNY GEN ED | TR | SEMESTER | | | |
| 1-2 | HRD 100, HRD 100A or HRD 110 | FRESHMAN EXPERIENCE | | | | | | |
| 3 | ENG 101 | <i>Introduction to College Writing</i> | GEBC | | | | | |
| 3 | SUNY GEN ED Basic Communication ENG 102, ENG 103, ENG 104, ENG 105, ENG 106, ENG 107, ENG 108, ENG 109 or ENG 110 | ENG 110 <i>Elements of Technical Writing</i> recommended | GEBC | | | | | |
| 3 | SUNY GEN ED Mathematics | MAT 127 <i>Introductory Statistics with Probability</i> recommended | GEMA | | | | | |
| 4 | SUNY GEN ED Natural Science Lab Science | | GENS | | | | | |
| 3 | SUNY GEN ED Social Science | | GESS | | | | | |
| 3 | SUNY GEN ED Humanities, The Arts, Other World Civilizations or Foreign Languages Liberal Arts and Sciences | PHI 202 <i>Ethics</i> or PHI 207 <i>Business Ethics</i> recommended | GEFL GEHU GEOC GETA | | | | | |
| 3 | CRJ 101 | <i>Introduction to Criminal Justice</i> | | | | | | |
| 3 | CRJ 212 (Prereq Required) | <i>Criminal Evidence</i> | | | | | | |
| 1 | CIS 130 | <i>Information Assurance</i> | | | | | | |
| 3 | CIS 131 | <i>Introduction to Networking</i> | | | | | | |
| 4 | CIS 133 (Fall only - Prereq and Coreq Required) | <i>Network Fundamentals (CCNA1)</i> | | | | | | |
| 4 | CIS 134 (Spring only - Prereq Required) | <i>LAN/WAN Technologies (CCNA2)</i> | | | | | | |
| 3 | CIS 135 (Prereq Required) | <i>Networking Security I</i> | | | | | | |
| 3 | CIS 136 (Fall only - Prereq Required) | <i>IT Security Essentials</i> | | | | | | |
| 3 | CIS 278 (Prereq Recommended) or CIS 246 (Prereq Required) | <i>IT Cybersecurity Internship or Advanced Networking Technologies</i> | | | | | | |
| 3 | CIS 232 (Prereq Required) | <i>Server Administration</i> | | | | | | |
| 4 | CIS 235 (Fall only - Prereq Required) | <i>Network Security II (CCNA CyberOps)</i> | | | | | | |
| 3 | CIS 245 (Spring only - Prereq Required) | <i>Ethical Hacking and Defense</i> | | | | | | |
| 3 | CIS Elective – choose one from: CIS 122 (Prereq Required) CIS 140 (Spring only - Prereq Required) CIS 143 (Prereq Required) | <i>Introduction to Internet Development</i> <i>Introduction to Programming in a Windows Environment</i> <i>Introduction to Programming</i> | | | | | | |
| 4 | Electives | | | | | | | |
| 64 | Minimum credits required for graduation | | | | | | | |

Note: Please review the back of this form for additional information.

❖ **COURSE PREREQUISITES:**

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|----------------|---|----------------|---|
| CIS 122 | Familiarity using a Windows based PC, file management techniques and a word processor | CIS 232 | CIS 131 |
| CIS 133 | CIS 131 (pre or corequisite) | CIS 235 | CIS 134 and CIS 135 |
| CIS 134 | CIS 133 | CIS 245 | CIS 136 and CIS 232 (Pre or Corequisite) and CIS 235 |
| CIS 135 | CIS 131 or permission of instructor | CIS 246 | CIS 134 |
| CIS 136 | CIS 135 | CIS 278 | 2.6 GPA in Core Curriculum , CIS 232 and CIS 235 (Students may be required to lift up to 30 pounds, sit and/or stand for long periods of time, and walk in excess of 2 miles) |
| CIS 140 | CIS 122, MAT 108 or College Level Math Score >=60 | CRJ 212 | CRJ 101 |
| CIS 143 | MAT 108 (or equivalent) or CIS 122 | | |
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❖ **RECOMMENDED SEQUENCE:****FIRST YEAR****First Semester**

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|-----|------------------------------|
| 1-2 | HRD 100, HRD 100A or HRD 110 |
| 3 | ENG 101 |
| 1 | CIS 130 |
| 3 | CIS 131 |
| 4 | CIS 133 |
| 3 | CRJ 101 |

Second Semester

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|---|-------------------------|
| 3 | ENG 102 |
| 3 | SUNY GEN ED Mathematics |
| 3 | CIS 135 |
| 4 | CIS 134 |
| 3 | CIS 232 |

SECOND YEAR**Third Semester**

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| 3 | SUNY GEN ED Social Science |
| 3 | CIS 136 |
| 3 | CIS Elective – CIS 122, CIS 140 or CIS 143 |
| 4 | CIS 235 |
| 3 | CRJ 212 |

Fourth Semester

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| 4 | SUNY GEN ED Natural Science lab science |
| 3 | SUNY GEN ED GEFL, GEHU, GEOC or GETA Liberal Arts and Sciences |
| 3 | CIS 278 or CIS 246 |
| 3 | CIS 245 |
| 4 | Electives |

❖ **DEFINITION OF COURSE REQUIREMENTS:** See <http://catalog.sunyacc.edu/academics/degree requirements>

❖ **FINANCIAL AID RECIPIENTS:** A student **must** choose courses that are within their degree program. Students are encouraged to meet with their assigned academic advisor for any questions about course selection and degree program requirements. Please visit the Office of Financial Aid for any aid-related questions.

❖ **SUNY GEN ED KNOWLEDGE AREAS:** See <http://catalog.sunyacc.edu/academics/generaleducation>

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|-------------------------------|-----------------------------------|
| ❖ Mathematics (GEMA) | ❖ Other World Civilization (GEOC) |
| ❖ Natural Sciences (GENS) | ❖ Humanities (GEHU) |
| ❖ Social Sciences (GESS) | ❖ The Arts (GETA) |
| ❖ American History (GEAH) | ❖ Foreign Languages (GEFL) |
| ❖ Western Civilization (GEWC) | ❖ Basic Communication (GEBC) |