

# CYBERSECURITY

## A.A.S. Degree\*

<sup>1</sup> Students with English Proficiency Index (EPI) of 0-49 enroll in corequisite course ENG 100. Students with EPI of 50-64 enroll in corequisite course ENG 110. Students with EPI of at least 65 (or other English proficiency qualification) enroll in ENG 111. Students with ESL need should take appropriate ESL course/s (Sequence: ESL 01 > 02 > 03 > 09) before enrolling in ENG 110.

<sup>2</sup> Students with Math Proficiency Index (MPI) of 0-59 enroll in the corequisite course MTH 28.5. Students with MPI of 39 or lower are strongly encouraged to enroll in Math Start/CUNY Start. Students planning to transfer to a four-year college should take MTH 30.

<sup>3</sup> It is highly recommended that students take FYS 11 in their first or second semester prior to earning 24 credits. Students who have earned 24 or more credits are permitted to use the one credit as a free elective.

<sup>4</sup> HIS 10 or HIS 11 is strongly recommended. HIS 11 is for students who enroll in ENG 110 as a corequisite.

<sup>5</sup> Students who are planning to transfer to senior college programs in Cybersecurity/Networking and similar may complete MTH 30 Pre-Calculus Mathematics in place of PHY 12. It is recommended that students consult with their advisor and review senior college program requirements to determine the best course to take to optimize credit transfer.

**\*Note: In order to graduate, students must meet all requirements, including, completing all required courses with appropriate grades, completing two writing intensive courses, and earning a minimum GPA of 2.0, and [applying for graduation](#).**

### SEMESTER I Freshman

	Prerequisite/Corequisite	
<input type="checkbox"/> <b>Required Core A:</b> English Composition I - ENG 100 Integrated Reading and Writing <b>OR</b> ENG 110 Fundamentals of Writing and Rhetoric <b>OR</b> ENG 111 Writing and Rhetoric <sup>1</sup>	See footnote <sup>1</sup>	3
<input type="checkbox"/> <b>Required Core B:</b> MTH 28 College Algebra and Elementary Trigonometry <b>OR</b> MTH 28.5 College Algebra and Elementary Trigonometry Corequisite <sup>2</sup>	See footnote <sup>2</sup>	3
<input type="checkbox"/> CSN 100 Introduction to Cybersecurity		3
<input type="checkbox"/> CSN 105 Computer Hardware and Software		3
<input type="checkbox"/> FYS 11 First Year Seminar <sup>3</sup>	None	1
<input type="checkbox"/> PEA Physical Education	<a href="#">See catalog</a>	1
<b>Subtotal:</b>		<b>14</b>

### SEMESTER II Freshman

	Prerequisite/Corequisite	
<input type="checkbox"/> <b>Required Core A:</b> ENG 112 Composition and Rhetoric II <b>OR</b> ENG 113 Writing About Literature <b>OR</b> ENG 114 Written Composition and Prose Fiction <b>OR</b> ENG 115 Written Composition and Drama <b>OR</b> ENG 116 Written Composition and Poetry	ENG 100, 110, or 111	3
<input type="checkbox"/> <b>Required Core C:</b> PHY 11 College Physics I	MTH 28 or 28.5, if required Corequisite: ENG 110	4
<input type="checkbox"/> <b>Flexible Core D:</b> COMM 11 Fundamentals of Interpersonal Communication	Corequisite: ENG 110, if required	3
<input type="checkbox"/> CSN 110 Network Fundamentals	Corequisites: CSN 105; MTH 28.5, if required	3
<input type="checkbox"/> CSN 130 Network Operating Systems I	Corequisites: CSN 110; MTH 28.5, if required	3
<b>Subtotal:</b>		<b>16</b>

### SEMESTER III Sophomore

	Prerequisite/Corequisite	
<input type="checkbox"/> <b>Flexible Core A-E:</b> Select <b>ONE</b> course from Flexible Core A-E <sup>4</sup>	<a href="#">See catalog</a>	3
<input type="checkbox"/> CSN 120 Network Switching and Routing	Corequisites: CSN 110; MTH 28.5, if required	3
<input type="checkbox"/> CSN 132 Network Operating Systems II	CSN 130	3
<input type="checkbox"/> CSN 140 Network Scripting	CSN 130; Corequisites: CSN 132	4
<input type="checkbox"/> CSN 170 Internet and Cloud Computing	Corequisites: CSN 140	3
<b>Subtotal:</b>		<b>16</b>

### SEMESTER IV Sophomore

	Prerequisite/Corequisite	
<input type="checkbox"/> <b>Flexible Core E:</b> PHY 12 College Physics II <sup>5</sup>	PHY 11	4
<input type="checkbox"/> <b>Choose ONE:</b> ART 10 Art Survey <b>OR</b> MUS 10 Music Survey	None	1
<input type="checkbox"/> CSN 150 Cybersecurity	Corequisites: CSN 132	4
<input type="checkbox"/> CSN 160 Ethical Hacking and Network Penetration Testing	Corequisites: CSN 140	3
<input type="checkbox"/> CSN 190 Cybersecurity Project	Corequisites: CSN 150	1
<input type="checkbox"/> Free Elective to complete 60 credits	<a href="#">See catalog</a>	1
<b>Subtotal:</b>		<b>15</b>

**TOTAL: 60**

# CYBERSECURITY & NETWORKING

## A.A.S. Degree

### ☒ Your Job-Ready Checklist!



### Workforce Development & Continuing Education

SAGE HALL 202, 718-289-5170

This checklist will keep you on track, so you are prepared for internships and jobs in your major. Contact your career specialist or visit Sage Hall today!

#### SEMESTER I

- ☐ Attend a Career Development open house (Include Focus 2 overview)
- ☐ Claim Big Interview, Handshake, and Focus2 Accounts
- ☐ Complete Focus 2 Self-Assessments to determine major/career interest
- ☐ Oral & Written Communication Skills Building
- ☐ Get CompTIA ITF+ and A+ Certifications



#### SEMESTER II

- ☐ Have an approved resume (Workshop and/or Resume Clinic)
- ☐ Attend an Industry-Related Info Session to get exposure to career paths
- ☐ How to write a cover letter (Workshop)
- ☐ How to answer interview questions (Workshop + Mock Interview & Big Interview)
- ☐ How to Succeed in the World of Work (Workshop)
- ☐ Oral & Written Communication Skills Building
- ☐ Join or create a Major-related Club
- ☐ Attend a Career Development open house (Include Focus 2 overview)
- ☐ Get CompTIA Network+, Server+, & CySA+ Certifications



#### SEMESTER IV

- ☐ Complete survey for 45+ credits
- ☐ Job Search Strategies & Networking Process (Workshop)
- ☐ Interviewing skills mock interview recap
- ☐ Attend Career Fair (Spring Break or Fall)
- ☐ Explore major-related jobs and internships
- ☐ Setup Cybersecurity Home Lab
- ☐ Get CompTIA Security+ and PenTest+ Certifications



#### SEMESTER III

- ☐ Develop a LinkedIn Account with a Professional Headshot (Workshop)
- ☐ Internship info session and interviewing skills mock interview recap
- ☐ Apply for, attend, and complete a major-related internship (Work between CS and student): Identify appropriate internships (credit-bearing and paid) and eligibility. Application and required documents revision. Interviewing skills practice through CUNY Interview Prep and Big Interview. Agency clothing service referral
- ☐ Join a Professional Affiliation (National Cybersecurity Alliance)
- ☐ Get Cisco CCNA, CompTIA Linux+, and Cloud+ Certification



#### POST GRADUATION

- ☐ Degree Map Completion Analysis
- ☐ Job & Internships Gap Identification
- ☐ Alumni Support Services
- ☐ Placement Data Compliance
- ☐ Success in the Workplace (Workshop)
- ☐ Explore Bachelor Programs

