



[CYBRAS; CIP Code 43.0403]

### Associate in Science (A.S.) – Transfer

The Cybersecurity field is listed as one of the fastest growing fields by the U.S. Department of Labor Statistics. This program is designed to be approachable, practical, and a good foundation for further study. The Associate in Science (AS) degree in Cybersecurity is designed to provide two academic years of college study for transfer to a four-year college or university.

#### Program Learning Outcomes

Students who have completed the program should be able to:

- Identify security risks and summarize possible remedies
- Use evidence-gathering protocols to locate, recover, and analyze digital evidence using forensics techniques and best practices for evidence recovery
- Install and configure a Linux and/or Windows system and identify security risks and possible remedies
- Apply for least one industry-recognized certification, such as CEH Certified Ethical Hacker, CompTIA CSA (Cybersecurity Analyst), CompTIA A+ (Hardware repair)

## Cybersecurity, A.S.

### 3+1 option in Computing and Informatics

#### FIRST YEAR – Fall Semester

|                                                                                                               |             |
|---------------------------------------------------------------------------------------------------------------|-------------|
| <input type="checkbox"/> ENGL 101 English Composition I <i>or</i><br>ENGL 101E Enhanced English Composition I | 3-4         |
| <input type="checkbox"/> MATH 114 College Algebra                                                             | 3           |
| <input type="checkbox"/> CSCI 101 Introduction to Microcomputers                                              | 3           |
| <input type="checkbox"/> CISM 217 Introduction to Networks                                                    | 4           |
| <input type="checkbox"/> ____ General Education Humanities Elective                                           | 3           |
|                                                                                                               | <hr/> 16-17 |

#### Spring Semester

|                                                                        |          |
|------------------------------------------------------------------------|----------|
| <input type="checkbox"/> ENGL 102 English Composition II               | 3        |
| <input type="checkbox"/> MATH 103 Statistics I                         | 3        |
| <input type="checkbox"/> CYBR 229 Linux Installation and Configuration | 3        |
| <input type="checkbox"/> CISM 200 Principles of Information Security   | 3        |
| <input type="checkbox"/> ____ General Education Elective               | 3        |
|                                                                        | <hr/> 15 |

#### SECOND YEAR – Fall Semester

|                                                                             |          |
|-----------------------------------------------------------------------------|----------|
| <input type="checkbox"/> CYBR 226 Network Infrastructure and Implementation | 3        |
| <input type="checkbox"/> CYBR 240 Security +                                | 3        |
| <input type="checkbox"/> CYBR 241 Computer Forensics                        | 3        |
| <input type="checkbox"/> ____ General Education Lab Science Elective        | 4        |
| <input type="checkbox"/> ____ General Education Social Science Elective     | 3        |
|                                                                             | <hr/> 17 |

#### Spring Semester

|                                                                                         |          |
|-----------------------------------------------------------------------------------------|----------|
| <input type="checkbox"/> CSCI 205 Programming in C++                                    | 4        |
| <input type="checkbox"/> CYBR 265 Ethical Hacking                                       | 4        |
| <input type="checkbox"/> ETEC 116 Workplace Ethics                                      | 1        |
| <input type="checkbox"/> ____ General Education Global<br>& Cultural Awareness Elective | 3        |
|                                                                                         | <hr/> 12 |

**TOTAL MINIMUM CREDITS: 60**

#### Program Notes

This program prepares students to continue their education at a four-year college or university in fields such as Security Technician, Security Analyst, Security Administrator, and Security Auditor.

✦ Are you ready to get started  
at RCSJ? Visit [RCSJ.edu/Enroll](https://www.rcsj.edu/enroll)  
and complete the interest form. ✦



*After completing the **Cybersecurity, A.S.**, students may choose to continue with the bachelor's degree pathway at RCSJ.*

*The 3+1 Program enables students to complete three years of coursework at RCSJ and one year at Rowan University to earn a bachelor's degree. The 3+1 pathway follows Rowan's course curriculum, with junior year classes taught by RCSJ advanced-degree faculty.*

## Computing & Informatics 3+1 Program

### THIRD YEAR — Fall Semester

|                                                                  |       |
|------------------------------------------------------------------|-------|
| <input type="checkbox"/> CSCI 112 Computer Science II            | 4     |
| <input type="checkbox"/> CSCI 220 Data Structures and Algorithms | 4     |
| <input type="checkbox"/> ENGL 201 British Literature I           | 3     |
| <input type="checkbox"/> SPEH 101 Effective Speech               | 3     |
|                                                                  | <hr/> |
|                                                                  | 14    |

### Spring Semester

|                                                                           |       |
|---------------------------------------------------------------------------|-------|
| <input type="checkbox"/> CYBR 337 Applied Database Technology             | 3     |
| <input type="checkbox"/> CSCI 216 Objects and Data Abstraction using Java | 4     |
| <input type="checkbox"/> MATH 201 Discrete Mathematics                    | 4     |
| <input type="checkbox"/> ____ Elective                                    | 3     |
|                                                                           | <hr/> |
|                                                                           | 14    |

### STEP 1

**START AT RCSJ**  
CYBERSECURITY (A.S.)

### STEP 2

**END AT**  
**ROWAN UNIVERSITY**  
COMPUTING AND  
INFORMATICS (B.A.)

**FOURTH YEAR** — After completing the third year at RCSJ, students will seamlessly transfer to Rowan University for their senior year. 3+1 Program team members at both institutions work closely with students to guide them through the process.



### Industry & Employment Opportunities

#### Bachelor's

Security Technician, Security Analyst, Security Administrator, and Security Auditor

#### Master's

Computer and Information Research Scientist



### Questions

#### About 3+1 Program:

Stephen Sweeney, Assistant Director,  
3+1 Program, [ssweene1@rcsj.edu](mailto:ssweene1@rcsj.edu)

#### About the program:

Karen Durkin, Assistant Dean,  
STEM Division | Assistant Professor,  
Mathematics, [kdurkin@rcsj.edu](mailto:kdurkin@rcsj.edu)

**[RCSJ.edu/3plus1](https://rcsj.edu/3plus1)**