

# CYBERSECURITY, BACHELOR OF SCIENCE (BS) - CONCENTRATION IN SECURITY GOVERNANCE

## Curriculum Guide

### GPA Requirement

Major GPA: 2.0 or higher

Overall GPA: 2.0 or higher

### Summary\*

Code	Title	Hours
	Rock Studies 2 Requirements	43
	Other Basic Requirements	0-3
	Computer Competency	0-3
	Major Requirements	60
	Electives	17

\* All undergraduate degree programs require a minimum of 120 credits.

Some courses meet multiple requirements, but are only counted once toward the 120 credit total required to graduate.

### Rock Studies 2 Requirements

Code	Title	Hours
<b>The Rock</b>		
SUBJ 139	Foundations of Academic Discovery <sup>1</sup>	3
ENGL 102	Critical Writing	3
ENGL 104	Critical Reading	3
	Select one of the following:	4
MATH 125	Precalculus	
MATH 225	Calculus I	
MATH 230	Calculus II	
MATH 231	Calculus III	
	Select one of the following:	3
COMM 200	Civil Discourse: Theory & Practice	
PHIL 110	Ethics and Civil Discourse	
POLS 235	Civil Discourse and Democracy	
	Subtotal	16

### Integrated Inquiry

#### *Creative and Aesthetic Inquiry*

Select 3 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) 3

#### *Humanities Inquiry*

Select 3 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) 3

#### *Social Science Inquiry*

Select 3 Credits (<https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/>) 3

#### *Natural Sciences Inquiry*

SCI 101 Science of Life 3

#### *Physical Science Inquiry*

SCI 102	Understanding the Physical World	3
	Subtotal	15
<b>Thematic Thread</b>		
	Select 12 Credits ( <a href="https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/">https://catalog.sru.edu/undergraduate/rock-studies/rock-studies-quick-guide/</a> ) <sup>2</sup>	12
	<b>Total Hours</b>	<b>43</b>

<sup>1</sup> Course offered in multiple subjects; cannot take course in first major subject

<sup>2</sup> One course from each category; six credits must be 300-level or above; no more than 4 credits from one subject area; specific courses required in first major, regardless of prefix of course, cannot be used to satisfy thread requirements; any course with same prefix as first major cannot be used to satisfy thread requirements, even if it is not a course in the first major.

### Basic Math Requirement

Check with your adviser or a current degree audit report to see if you have been exempted from this course. The credit earned in this course will not be counted toward the 120 credit hour minimum needed to earn a degree.

Code	Title	Hours
Complete one of the following: 0-3		
Meet required minimum SAT or ACT math score OR		
ESAP 110	Beginning Algebra	
	<b>Total Hours</b>	<b>0-3</b>

### Computer Competency

Code	Title	Hours
Demonstrate "computer competency" by one of the following: 0-3		
Pass Computer Competency Exam OR		
Select one of the following at SRU or another post-secondary institution:		
CPSC 100	Introduction to Computing for Liberal Arts	
CPSC 110	Computer Concepts	
CPSC 130	Introduction to Computing and Programming	
PE 202	Technology for Wellness	
	<b>Total Hours</b>	<b>0-3</b>

### DIVERSITY, EQUITY, AND INCLUSION REQUIREMENT

Students must take and pass a course with the Diversity, Equity, and Inclusion (DEI) designation prior to graduation. Students can meet this requirement by taking any DEI - designated course in any program at any time during their undergraduate career.

### Major Requirements

- 30 major credits must be taken at SRU or PASSHE
- 30 major credits must be taken at the 300 level or above

Code	Title	Hours
<b>Required Courses</b>		
CPSC 130	Introduction to Computing and Programming <sup>1</sup>	3
CPSC 146	Programming Principles <sup>1</sup>	3
CPSC 207	Shell Commands and Scripting <sup>1</sup>	3

CPSC 300	Challenges of Computer Technology <sup>1</sup>	3
CPSC 301	Practical Computer Security	3
CPSC 311	Discrete Computational Structures <sup>1</sup>	3
CPSC 323	Fundamentals of Database Systems <sup>1</sup>	3
CPSC 327	Administration and Security <sup>1</sup>	3
CPSC 423	Computer Networks <sup>1</sup>	3
CYBR 101	Cybersecurity in the Era of Evolving Technology <sup>1</sup>	3
<b>Subtotal</b>		<b>30</b>
<b>Security Governance Required Courses</b>		
CPSC 102	Collaborative Information Technology and Society <sup>1</sup>	3
CPSC 237	Mobile App Development for Smart Devices <sup>1</sup>	3
CPSC 217 or CPSC 246	Advanced Web Programming <sup>1</sup> Advanced Programming Principles	3
CPSC 333	Introduction to Computer Forensics <sup>1</sup>	3
CSS 120	Introduction to Private Security	3
CSS 240	Security Management	3
MIS 401	Information Systems Security <sup>1</sup>	3
MIS 443	Project Management <sup>1</sup>	3
<b>Subtotal</b>		<b>24</b>
<b>Security Governance Electives</b>		
Select two of the following:		6
CSS 320	Security Risk and Emergency Management	
CSS 351	Fraud	
CSS 354	Risk Assessment and Fraud Prevention	
CPSC 450	Internship <sup>1</sup>	
<b>Subtotal</b>		<b>6</b>
<b>Total Hours</b>		<b>60</b>

<sup>1</sup> Course counts for 50% of Major requirements and Major GPA

\* Some courses may require pre-requisites. Please see course descriptions to determine if there are any pre-requisites for that specific course.

## Co-curricular and Experiential Learning

Students are encouraged to explore additional curricular and co-curricular opportunities. There is a strong correlation between long-term student success and participation in the following types of programs and activities:

1. High-Impact Practice (HIP) designated classes (Learning Community, Cap-Stone Course, Semester Projects)
2. Student-faculty research
3. Service Learning Courses
4. Internships
5. Volunteering (Summer Day Camps, Semester Workshops for K-12 students, Robot demos for visitors/local school districts)
6. Industry Awareness Night

## Important Curriculum Guide Notes

This Curriculum Guide is provided to help SRU students and prospective students better understand their intended major curriculum. Enrolled SRU students should note that the My Rock Audit may place already-

earned and/or in progress courses in different, yet valid, curriculum categories. Enrolled SRU students should use the My Rock Audit Report and materials and information provided by their faculty advisers to ensure accurate progress towards degree completion. *The information on this guide is current as of the date listed. Students are responsible for curriculum requirements at the time of enrollment at the University.*

PASSHE - Pennsylvania State System of Higher Education Institutions

CYBERSECURITY (6421)

Concentration in Security Governance (SEGV)

This program is effective as of Summer 2022

Revised 06.10.2022

UCC 03.01.2022