

# CYBERSECURITY ANALYTICS AND OPERATIONS, B.S. (ABINGTON)

**Begin Campus:** Any Penn State Campus

**End Campus:** Abington

## Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition.

### Cybersecurity Analytics and Operations, B.S. at Abington Campus

The course series listed below provides **only one** of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an **Academic Requirements** or **What If** report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

#### First Year

Fall	Credits Spring	Credits Summer	Credits
CYBER 100 or 100S <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3 IST 495 <sup>*</sup>	0-1
IST 140 <sup>*</sup>	3 IST 220 <sup>*#</sup>	3	
CAS 100 <sup>‡</sup>	3 SRA 111 <sup>*†</sup>	3	
MATH 110 <sup>*††</sup>	4 ENGL 15 or 30H <sup>‡</sup>	3	
General Education Course (GA/GH)	3 General Education Course (GS)	3	
	<b>16</b>	<b>15</b>	<b>0-1</b>

#### Second Year

Fall	Credits Spring	Credits Summer	Credits
CYBER 262 <sup>*</sup>	3 IST 230 <sup>*</sup>	3 IST 495 <sup>*</sup>	0-1
IST 242 <sup>*#</sup>	3 IST 261 <sup>*</sup>	3	
STAT 200 or DS 200 <sup>*††</sup>	4 SRA 211 <sup>*</sup>	3	
Application Focus Selection 1	3 SRA 221 <sup>*</sup>	3	
General Education Course (GN)	3 General Education Course (GN)	3	
	<b>16</b>	<b>15</b>	<b>0-1</b>

#### Third Year

Fall	Credits Spring	Credits Summer	Credits
CYBER 362 <sup>*</sup>	3 CYBER 342W <sup>*</sup>	3 IST 495 <sup>*</sup>	0-1
SRA 231 <sup>*</sup>	3 CYBER 366 <sup>*</sup>	3	
SRA 365 <sup>*</sup>	3 SRA 311 <sup>*</sup>	3	

ENGL 202C or 202D <sup>*††</sup>	3 Application Focus Selection 2	3	
General Education Course (GA/GH)	3 General Education Course (GA/GH)	3	
General Education Course (GHW)	1.5		
	<b>16.5</b>	<b>15</b>	<b>0-1</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 432 <sup>*</sup>	3 CYBER 440 <sup>*</sup>	3
IST 456 <sup>*</sup>	3 IST 454 <sup>*</sup>	3
IST 451 <sup>*</sup>	3 Application Focus Selection 3	3
General Education Course (GN)	3 General Education Course (GA/GH)	3
General Education Course (GHW)	1.5 Elective	3
	<b>13.5</b>	<b>15</b>

#### Total Credits 122-125

\* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

# Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

#### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

#### Advising Notes:

Students pick one of the four tracks below or create a custom 4-course application focus. Students should take one course that meets the GS requirements. Students must pick six (6) credits at the 400 level. All 12 credits must be in the same application focus area.

#### Law and Policy

Code	Title	Credits
PLSC 1	American Politics: Principles, Processes and Powers	3
COMM 100N	The Mass Media and Society	3

CRIMJ 100	Introduction to Criminal Justice	3
CRIMJ 220	Courts and the Prosecution Process	3
CRIMJ 441	The Juvenile Justice System	3
CRIMJ 451	Race, Crime, and Justice	3
CRIMJ 453	Women and the Criminal Justice System	3
CRIMJ 465	Ethics in Criminal Justice	3
CRIMJ 497	Special Topics (Hate Crime, Extremism, Terrorism)	1-9

### Health Care

Code	Title	Credits
HPA 101	Introduction to Health Services Organization	3
HPA 332	Health Systems Management	3
IST 110	Information, People and Technology	3
HPA 470	Health Care Information Management	3
HPA 447	Financing Health Care	3
SOC 451	Health, Disease & Society	3
HIST 114N	Historical Perspectives on HealthCare Innovations	3
BIOET 110N	Health, Illness, and the Human Condition	3

### Software Development

Code	Title	Credits
IST 110	Information, People and Technology	3
IST 311	Object-Oriented Design and Software Applications	3
IST 411	Distributed-Object Computing	3
IST 412	The Engineering of Complex Software Systems	3

### Business

Code	Title	Credits
ECON 102	Introductory Microeconomic Analysis and Policy	3
ECON 104	Introductory Macroeconomic Analysis and Policy	3
FIN 301	Corporation Finance	3
ACCTG 211	Financial and Managerial Accounting for Decision Making	4
ACCTG 471	Intermediate Financial Accounting I	3
ACCTG 403	Auditing	3
MGMT 215	Entrepreneurial Mindset	3
MGMT 301	Basic Management Concepts	3
MGMT 425	New Venture Creation	3
MGMT 427	Managing an Entrepreneurial Start-Up Company	3

### Custom Application Focus

There is an option for a student to create a custom 4-course application focus sequence. It must be a coherent sequence of courses that provides context for the student in terms of cybersecurity content. It should contain three credits of GS coursework and must contain six credits of 400-level coursework. It must be selected in consultation with a teaching CYBER faculty member and an academic adviser.