

CYBERSECURITY ANALYTICS AND OPERATIONS, B.S. (UNIVERSITY COLLEGE)

Begin Campus: Any Penn State Campus

End Campus: Beaver, Brandywine, Greater Allegheny, Lehigh Valley, Schuylkill, York

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2023-24 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 (*Note: the archive only contains suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin*).

Cybersecurity Analytics and Operations, B.S. at Beaver Campus

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First Year

Fall	Credits Spring	Credits
IST 140 (*# or CMPSC 121 (GQ)#‡ or CMPSC 131*#) ^{1,2}	3 IST 220*#	3
Application Focus Selection 1 (GS) (IST 110)	3 IST 242*# ¹	3
ENGL 15 or 30H (GWS)	3 Application Focus Selection 1 (GS) ^{4,5}	3
MATH 110 or 140 (GQ)*‡ ^{2,3}	4 General Education Course (GN) ⁶	3
First Year Seminar (IST 111S)	1 CAS 100 (GWS) [†]	3
SRA 111*	3 CYBER 100*#	3
	17	18

Second Year

Fall	Credits Spring	Credits
IST 210*#	3 STAT 200 (‡ (GQ) or SCM 200‡ (GQ) or DS 200*)	4
IST 230*	3 SRA 211*	3

Application Focus Selection 2 (IST 331)	3 General Education Selection (GA/GH) ⁴	3
CYBER 262*	3 General Education Course (GN) ⁶	3
SRA 211*	3 IST 256	3
	ENGL 202C or 202D (GWS)	3
	15	19

Third Year

Fall	Credits Spring	Credits Summer	Credits
General Education Selection (GA/GH)	3 SRA 365*	3 IST 495 ⁷	1-3
SRA 231*	3 IST 454*	3	
IST 451*	3 Application Focus Selection 4 (IST 411)	3	
SRA 211*	3 IST 390	1	
Application Focus Selection 3 (IST 311) ⁵	3 CYBER 362*	3	
Health and Wellness (GHW)	1.5 CYBER 366*	3	
	16.5	16	1-3

Fourth Year

Fall	Credits Spring	Credits
General Education Selection (GA/GH)	3 CYBER 440 (GWS)*	3
General Education Course (GA/GH)	3 Application Focus Selection 5 (IST 413)	3
General Education Course (GN)	3 IST 456*	3
Health and Wellness (GHW)	1.5 Natural Sciences (GN)	3
IST 495*	1 CYBER 342W*	3
IST 432*	3 SRA 311*	3
Elective	3	
	17.5	18

Total Credits 138-140

* 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

¹ Since IST 240 will not be offered at this campus, these courses are required courses for ISTBS or ISSCC at Brandywine.

² Course substitutions required for Computer Science minor.

- ³ MATH 110 or MATH 140 required for graduation requirements. HS Trigonometry or MATH 22 required for admission.
- ⁴ Students must complete three (3) credits of United States Cultures (US) and three (3) credits of International Cultures (IL) as part of General Education, choice of course may vary.
- ⁵ Application Focus Selection: Consider courses toward a minor like Business, Peace and Conflict Studies, or Computer Science.
- ⁶ Recommend one (1) GN selection be FRNSC 100 Intro to Forensic Science before taking IST 454 Cyber Forensics.
- ⁷ One internship for credit is required to complete degree requirements, a maximum of three internships for credit are allowed.

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 should consult with an adviser when scheduling courses.
- See Adviser for Internship Preparation (CNED 280) – recommended elective; offered every semester.

Cybersecurity Analytics and Operations, B.S. at Brandywine 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 ^{*#}	3 IST 220 ^{*#}	3 IST 495 ^B	1
IST 111S (FYE)	1 IST 242 ^{*#1}	3	
IST 140 ^{*#1,2}	3 SRA 221 [*]	3	
ENGL 15 or 30H (GWS)	3 Application Focus Selection 1 (GS) ^{4,5}	3	
MATH 110 (GQ) ^{*2,3}	4 Natural Sciences (GN) ⁶	3	
SRA 111 [*]	3 CNED 280 ⁷	1	
	17	16	1

Second Year

Fall	Credits Spring	Credits Summer	Credits
IST 230 ^{*2}	3 IST 210 ^{*#}	3 IST 495 ^B	1
IST 261 [*]	3 STAT 200 (GQ) ^{*#}	4	
CYBER 262 [*]	3 SRA 211 [*]	3	
Application Focus Selection 2 ⁵	3 General Education Selection (GA/GH) ⁴	3	
CAS 100A (GWS)	3 Natural Sciences (GN) ⁶	3	
DS 120 (Recommended)	1		
	16	16	1

Third Year

Fall	Credits Spring	Credits Summer	Credits
General Education Selection (GA/GH) ⁴	3 SRA 365 [*]	3 IST 495 ^B	1
ENGL 202C or 202D (GWS)	3 IST 454 [*]	3	
SRA 231 [*]	3 CYBER 362 [*]	3	
IST 451 [*]	3 CYBER 366 [*]	3	
Application Focus Selection 3 ⁵	3 SRA 311 [*]	3	
Health and Wellness (GHW)	1.5		
	16.5	15	1

Fourth Year

Fall	Credits Spring	Credits
IST 432 [*]	3 CYBER 440 (GWS) [*]	3
IST 456 [*]	3 SRA 472 (or Elective) [*]	3
CYBER 342W [*]	3 Elective or Application Focus Selection 5 to complete minors	3
General Education Selection (GA/GH) ⁴	3 General Education Selection (GA/GH) ⁴	3
Health and Wellness (GHW) Application Focus Selection 4 ⁵	1.5 Natural Sciences (GN)	3
	16.5	15

Total Credits 131

- * 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

- 1 Since IST 240 will not be offered at this campus, these courses are required courses for ISTBS or ISSCC at Brandywine.
- 2 Course substitutions required for Computer Science minor.
- 3 MATH 110 or MATH 140 required for graduation requirements. HS Trigonometry or MATH 22 required for admission.
- 4 Students must complete three (3) credits of United States Cultures (US) and three (3) credits of International Cultures (IL) as part of General Education, choice of course may vary.
- 5 Application Focus Selection: Consider courses toward a minor like Business, Peace and Conflict Studies, or Computer Science.
- 6 Recommend one (1) GN selection be FRNSC 100 Intro to Forensic Science before taking IST 454 Cyber Forensics.
- 7 See Adviser for Internship Preparation (CNED 280) – recommended elective; offered every semester.
- 8 One internship for credit is required to complete degree requirements, a maximum of three internships for credit are allowed.

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attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

Advising Notes:

- Students should consult with an adviser when scheduling courses.

Application Focus Lists

Students pick one of the four tracks below. 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.

Business (Minor)

Code	Title	Credits
ECON 102 or ECON 104	Introductory Microeconomic Analysis and Policy Introductory Macroeconomic Analysis and Policy	3
ACCTG 211	Financial and Managerial Accounting for Decision Making	4
MGMT 301	Basic Management Concepts	3
MKTG 301	Principles of Marketing	3
IST 432	Legal and Regulatory Environment of Information Science and Technology (Required for CYAOP major)	3
One (1) three credit 400-level business course from the following disciplines: ¹		3
Accounting		
Business Administration		
Business Law		
Energy Business and Finance		
Economics		
Entrepreneurship		
Finance		
Financial Services		
Health Policy and Administration		
International Business		
Management Information Systems		
Management		
Risk Management		
Supply Chain Management		
Statistics		

¹ Each 400-level business course will have different prerequisites; make sure to confirm meeting prerequisites before scheduling

Computer Science (Minor)

Requires planning and decision during NSO to schedule CMPSC required courses.

Code	Title	Credits
MATH 140	Calculus With Analytic Geometry I (Course Substitute for MATH 110) ¹	4
CMPSC 121	Introduction to Programming Techniques (Course Substitute for IST 140) ²	3
CMPSC 122	Intermediate Programming	3
CMPSC 221	Object Oriented Programming with Web-Based Applications	3
CMPSC 360	Discrete Mathematics for Computer Science	3

CMPSC 462 or CMPSC 465	Data Structures Data Structures and Algorithms	3
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Two (2) additional CMPSC courses for six more credits of 400-level work in computer science 6

¹ Prerequisite: ALEKS score > 75 or MATH 22 and MATH 26

² Prerequisite: ALEKS score > 45

Peace and Conflict (Minor)

Code	Title	Credits
PLSC 14	International Relations	3
PLSC 291	Introduction to Peace and Conflict Studies	3
PLSC 491	Peace and Conflict Studies Seminar	3
SRA 211	Threat of Terrorism and Crime (Required for CYAOP Major)	3
Two (2) additional 400-level courses from approved list (e.g., CAS 404; COMM 458)		6

Health Policy and Administration (via DLC from consortium)

Code	Title	Credits
HPA 101	Introduction to Health Services Organization	3
HPA 332	Health Systems Management	3
HPA 470	Health Care Information Management	3
BBH 440	Principles of Epidemiology	3

Custom

Custom 4-course application focus provides coherent sequence in Cybersecurity context for student in terms of three credits of GS coursework and must contain six credits of 400-level coursework.

Examples are student taking courses to receive Homeland Security minor, Criminal Justice minor, Cybersecurity Computational Foundations minor (variant of Computer Science minor), or Crime, Law, and Psychology minor.

Requires completion and submission of Custom 4-Course Focus Approval Form.

Cybersecurity Analytics and Operations, B.S. at Greater Allegheny Campus

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First Year

Fall	Credits Spring	Credits
CYBER 100S (FYS) ^{*#}	3 IST 220 ^{*#}	3
IST 140 ^{*#}	3 IST 242 ^{*#}	3
ENGL 15 or 30H (GWS) [‡]	3 SRA 221 [*]	3
MATH 110 ^{*‡}	4 Application Focus Selection 1 (GS/GHW)	3
SRA 111 ^{*†}	3 General Education Selection	3
	16	15

Second Year

Fall	Credits Spring	Credits
IST 230 [*]	3 IST 210 ^{*#}	3
IST 261 [*]	3 SRA 211 [*]	3
CYBER 262 [*]	3 STAT 200 ^{*‡#}	4
CAS 100A (GWS) [‡]	3 ENGL 202C or 202D [‡]	3
General Education Selection	3 General Education Selection	3
	15	16

Third Year

Fall	Credits Spring	Credits
General Education Selection	3 CYBER 342W [*]	3
CYBER 362 [*]	3 CYBER 366 [*]	3
SRA 231 [*]	3 SRA 311 [*]	3
SRA 365 [*]	3 Application Focus Selection 3	3
Application Focus Selection 2	3 General Education Selection	3
General Education Selection	1.5	
	16.5	15

Fourth Year

Fall	Credits Spring	Credits
IST 456 [*]	3 CYBER 440 [*]	3
SRA 472 [*]	3 IST 432 [*]	3
IST 451 [*]	3 IST 454 [*]	3
General Education Selection	3 Application Focus Selection 4	3
General Education Selection	1.5 Elective	2
Elective	3 IST 495 [*]	1
	16.5	15

Total Credits 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:

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Advising Notes:

- CYBER, IST, and SRA courses have enforced prerequisites
- 1 credit of IST 495 IST Internship is required

Cybersecurity Analytics and Operations, B.S. at Lehigh Valley Campus

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First Year

Fall	Credits Spring	Credits
IST 140 ^{*#}	3 SRA 221 [*]	3
SRA 111 [†]	3 IST 220 ^{*#}	3
CYBER 100S ^{*#}	3 Application Focus Selection 1	3
MATH 110 ^{††}	4 General Education Selection	3
ENGL 15 or 30H (GWS) ^{††}	3 IST 242 ^{*#}	3
	16	15

Second Year

Fall	Credits Spring	Credits
IST 230 [*]	3 IST 210 ^{*#}	3
IST 261 [*]	3 SRA 211 [*]	3
CYBER 262 [*]	3 STAT 200 ^{†#†}	4
CAS 100A ^{††}	3 ENGL 202C or 202D ^{††}	3
General Education Selection	3 General Education Selection	3
	15	16

Third Year

Fall	Credits Spring	Credits
CYBER 362 [*]	3 CYBER 342W [*]	3
SRA 231 [*]	3 CYBER 366 [*]	3
SRA 365 [*]	3 SRA 311 [*]	3
General Education Selection	3 Application Focus Selection 3	3
General Education Selection	1.5 General Education Selection	3
Application Focus Selection 2	3	
	16.5	15

Fourth Year

Fall	Credits Spring	Credits
IST 456 [*]	3 CYBER 440 [*]	3
SRA 472 [*]	3 IST 432 [*]	3
IST 451 [*]	3 IST 454 [*]	3
General Education Selection	3 Application Focus Selection 4	3
General Education Selection	1.5 Elective	2
Elective	3 IST 495	1
	16.5	15

Total Credits 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:

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Cybersecurity Analytics and Operations, B.S. at Schuylkill 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
CYBER 100 ^{*#1}	3 IST 220 ^{*#}	3
IST 140 ^{*#}	3 IST 242 ^{*#2}	3
ENGL 15 or 30H [‡]	3 MATH 110 or 140 ^{*‡3}	4
SRA 111 (GS) ^{**†}	3 SRA 221 [*]	3
PSU 8 (FYS)	2 General Education Course	3
General Education Course	3	
	17	16

Second Year

Fall	Credits Spring	Credits
IST 230 [*]	3 IST 210 ^{*#}	3
IST 261 ^{*4}	3 SRA 211 [*]	3
CYBER 262 [*]	3 STAT 200 (GQ) ^{*‡#5}	4
CAS 100A [‡]	3 ENGL 202C or 202D [‡]	3
Application Focus Selection ¹⁶	3 General Education Course	3
	15	16

Third Year

Fall	Credits Spring	Credits
General Education Course	3 CYBER 342W [*]	3
CYBER 362 [*]	3 CYBER 366 [*]	3
SRA 231 [*]	3 SRA 311 [*]	3
SRA 365 [*]	3 General Education Course	3
Application Focus Selection ²⁶	3 General Education Course	3
	15	15

Fourth Year

Fall	Credits Spring	Credits
IST 456 [*]	3 CYBER 440 [*]	3
IST 451 [*]	3 IST 432 [*]	3
Application Focus Selection ³⁶	3 IST 454 [*]	3
General Education Course	3 General Education Course or Elective	3
Elective	3 Elective	3
	IST 495 ^{*7}	1
	15	16

Total Credits 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

¹ Students enrolled at Schuylkill campus must take CYBER 100 and schedule the PSU 8 First-Year Seminar (FYS) course. If you have taken CYBER 100S elsewhere, it may be accepted as an alternative to CYBER 100 to satisfy the Entrance-to-Major requirement.

² CMPSC 122 or CMPSC 132 may be substituted as an alternative to IST 242 to satisfy the Entrance-to-Major requirement.

³ MATH 140 may be substituted as an alternative to MATH 110.

⁴ IST 256 or IST 361 may be substituted as an alternative to IST 261.

⁵ SCM 200 may be substituted as an alternative to STAT 200 to satisfy the Entrance-to-Major requirement.

⁶ Students satisfy the Application Focus Area requirement by taking 9 credits of coursework in an approved application track or custom focus area, including a minimum of 3 credits of 400-level coursework in the area. Students may optionally take a 4th course in an approved Application Focus Area track or choose a related elective in their senior year.

⁷ 1 credit of IST 495 is required. A grade of C or better must be earned in this course. This requirement can be completed at any time before graduation. Up to 3 internship credits may be earned during your degree work.

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Cybersecurity Analytics and Operations, B.S. at Shenango Campus

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First Year

Fall	Credits Spring	Credits
CYBER 100 or 100S*#	3 IST 210*#	3
IST 140*#	3 IST 220*#	3
CAS 100†	3 SRA 111*	3
MATH 110*‡	4 ENGL 15 or 30H†	3
General Education Course	3 Application Focus Selection 1 (GS/GHW)	3
PSU 8	1	
	17	15

Second Year

Fall	Credits Spring	Credits
CYBER 262*	3 IST 261*	3
IST 242*#	3 SRA 211*	3
STAT 200*‡#	4 SRA 221*	3
General Education Course	3 IST 230*	3
Application Focus Selection 2	3 General Education Course	3
	16	15

Third Year

Fall	Credits Spring	Credits
CYBER 362*	3 CYBER 342W*	3
IST 451*	3 IST 454*	3
SRA 231*	3 SRA 311*	3
SRA 365*	3 CYBER 366*	3
Application Focus Selection 3	3 ENGL 202C or 202D†	3
General Education Course	3 IST 495* ¹	1
	18	16

Fourth Year

Fall	Credits Spring	Credits
IST 456*	3 CYBER 440*	3
SRA 472*	3 Application Focus Selection 4	3
IST 432*	3 General Education Course	3
General Education Course	3 Elective or US Cultures (US) or International Cultures (IL)	3
General Education Course	3 General Education Course	3
	15	15

Total Credits 127

* 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

¹ 1 credit of IST 495 is required. A grade of C or better must be earned in this course. This requirement can be completed at any time before graduation.

University Requirements and General Education Notes:

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Program Notes:

IST 495 (1-credit internship) can be taken in any semester during the third and fourth year, including Summer, but must be completed before or during the 8th semester. Students may enroll in IST 495 up to 3 times in 3 different semesters (3 different internships). See your adviser for more guidance.

Cybersecurity Analytics and Operations, B.S. at York Campus

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First Year

Fall	Credits	Spring	Credits
CYBER 100 or 100S (FYS) ^{*#}	3	IST 210 ^{*#}	3
IST 140 ^{*#}	3	IST 220 ^{*#}	3
ENGL 15 or 30H (GWS) [‡]	3	IST 242 ^{*#}	3
SRA 111 (GS) ^{*†}	3	General Education Course	3
General Education Course	3	General Education Course	3
	15		15

Second Year

Fall	Credits	Spring	Credits
SRA 221 [*]	3	IST 230 [*]	3
CYBER 262 [*]	3	IST 261 ^{*1}	3
MATH 110 (GQ) ^{*‡}	4	SRA 211 [*]	3
CAS 100A (GWS) [‡]	3	STAT 200 (GQ) ^{*‡#}	4
General Education Course	3	Application Focus Selection 1 (GS/GHW)	3
	16		16

Third Year

Fall	Credits	Spring	Credits
IST 451 [*]	3	CYBER 366 [*]	3
SRA 231 [*]	3	IST 432 [*]	3
ENGL 202C or 202D (GWS) [‡]	3	SRA 311 [*]	3
Application Focus Selection 2	3	SRA 365 [*]	3
General Education Course	3	General Education Course	3
General Education Course	1.5		
	16.5		15

Fourth Year

Fall	Credits	Spring	Credits
CYBER 362 [*]	3	CYBER 440 ^{*2}	3
CYBER 342W [*]	3	IST 454 [*]	3
IST 456 [*]	3	General Education Course	3
Application Focus Selection 3	3	Elective	3
General Education Course	3	IST 495 [*]	1
General Education Course	1.5		
	16.5		13

Total Credits 123

- * 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

¹ Cross-list with IST 361 Application Development Design Studio II

² Cross-list with IST 440W Information Sciences and Technology Integration and Problem Solving

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Advising Notes:

- Application Focus Lists:
 - Business:
 - Students should choose 2 courses from the following: ACCTG 211, MGMT 301, or MKTG 301.
 - Select 3 credits at the 400-level from: ACCTG, BA, BLAW,EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT.
 - Note: MGMT 301 and MKTG 301 both require ECON 102 or ECON 104 as prerequisites, so students should take ECON 102/ECON 104 as their GS selection.
 - Note: IST 432 counts toward the business minor.
 - Custom:
 - Custom 3 credit application focus provides coherent sequence in Cybersecurity context for student in terms of three credits of GS coursework and must contain 3 credits of 400-level courses.
 - Examples are student taking courses to receive Homeland Security minor, Criminal Justice minor, Cybersecurity Computational Foundations minor (variant of Computer Science minor), or Crime, Law, and Psychology minor.
 - Requires completion and submission of Custom 4-Course Focus Approval Form.