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 2025-26 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 Beaver 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*#	3 CAS 100 (GWS) [‡]	3	
IST 140 (*# or CMPSC 121 (GQ)#‡ or CMPSC 131*#) ^{1,2}	3 IST 220 ^{*#}	3	
ENGL 15 or 30H (GWS)	3 IST 242*#1	3	
MATH 110 or 140 (GQ)* ^{‡2,3}	4 SRA 221 [*]	3	
First Year Seminar (IST 111S)	1 General Education Course (GN) ⁴	3	
SRA 111 (GS)*	3		
	17	15	

Second Year

Second real		
Fall	Credits Spring	Credits
CYBER 262 [*]	3 ENGL 202C or 202D (GWS)	3
IST 210*#	3 IST 256 (or Application Focus Selection 1)	3
IST 230*	3 STAT 200 (‡# (GQ) or SCM 200‡# (GQ) or DS 200*)	4

Application Focus Selection	Education Course (GA/ GH) ⁵ 3 General Education	3	
1 or IST 261	Course (GN) ⁴		

	l Year

Fall	Credits Spring	Credits Summer	Credits
IST 451*	3 CYBER 362*	3 IST 495 ^{*6}	1
SRA 231*	3 CYBER 366*	3	
SRA 365*	3 IST 454*	3	
General Education Course (GA/ GH) ⁵	3 SRA 311 [*]	3	
Health and Wellness (GHW	1.5 Application) Focus Selection 2	3 1	

15

Fourth Year

13.5

Fall	Credits Spring	Credits	
CYBER 342W [*]	3 CYBER 440 (GWS)*	3	
IST 456*	3 IST 432*	3	
IST 495 ^{*6}	1 IST 495 ^{*6}	1	
General Education Course (INT)	3 Application Focus Select 3	3 ction	
General Education Course (Exploratory)	3 General Education Course (INT	3	
General Education Course (Exploratory)	3 Elective	3	
Health and Wellness (GHW)	1.5		
	17.5	16	

Total Credits 126

- * 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.
- MATH 110 or MATH 140 required for graduation requirements. HS Trigonometry or MATH 22 required for admission.
- Recommend one (1) GN selection be FRNSC 100 Intro to Forensic Science before taking IST 454 Cyber Forensics.

- 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.
- 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 CYBER 100*#	Credits Spring 3 IST 220*#	Credits Summer 3 IST 495 or ITECH 495 ⁷	Credits 1
IST 111S (FYE)	1 IST 242 or CMPSC 132*#1	3	
IST 140 or CMPSC 131*#1,2	3 CYBER 221 or SRA 221*	3	
ENGL 15 or 30H (GWS)	3 General Education Course ^{4,5}	3	
MATH 110 (GQ) ^{*2,3}	4 Natural Sciences (GN) ⁶	3	
SRA 111*	3		
	17	15	1

Second Year

occoma rear			
Fall	Credits Spring	Credits Summer	Credits
IST 230 ^{*2}	3 IST 256 or 210 ^{*#}	3 IST 495 or ITECH 495 ⁷	1
IST 210 or 261*	3 STAT 200 (GQ) ^{*#}	4	
CYBER 262*	3 SRA 211 [*]	3	
Application Focus Selection 1 ⁵	3 General Education Course ⁴	3	
CAS 100A (GWS)	3 General Education Course (GN) ⁶	3	
	15	16	1

Third Year

Time Tear			
Fall	Credits Spring	Credits Summer	Credits
CYBER 451 or IST 451*	3 CYBER 342W [*]	3 IST 495 or ITECH 495 ⁷	1
ENGL 202C or 202D (GWS)	3 CYBER 362*	3	
SRA 231*	3 CYBER 454 or IST 454*	3	
SRA 365 [*]	3 SRA 311 [*]	3	
Application Focus Selection 2 ⁵	3 General Education Course ⁴	3	
General Education Course (GHW)	1.5		
	16.5	15	1

Fourth Year

Fall	Credits Spring	Credits	
CYBER 366*	3 CYBER 440*	3	
CYBER 456 or IST 456*	3 IST 432 (or Elective)*	3	
General Education Course ⁴	3 Elective	3	
General Education Course (GHW)	1.5 General Education Course ⁴	3	
Application Focus Selection 3 ⁵	3 General Education Course (GN)	3	
	13.5	15	

Total Credits 126

- * 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 IST 240 will not be offered at this campus.
- ² Course substitutions required for Computer Science minor.
- MATH 110 or MATH 140 required for graduation requirements. HS Trigonometry or MATH 22 required for admission.
- 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.
- Consider courses that are prerequisites for an application focus. You may consider courses toward a minor like Business, Peace and Conflict Studies, Computer Science or other.
- Recommend one (1) GN selection be FRNSC 100 Intro to Forensic Science before taking IST 454 Cyber Forensics.
- 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.

Application Focus Lists

Students may select from the Application Focus Lists found on the College of IST Suggested Academic Plan for CYAOP BS degree (https://bulletins.psu.edu/undergraduate/colleges/information-sciences-technology/cybersecurity-analytics-operations-bs/#suggestedacademicplantext), or create a custom 3-course application from the lists below, in consultation with their academic adviser. Note that not all courses are available at the Brandywine campus.

Students are required to pick one track to fulfill the degree requirements. Students must pick three (3) credits at the 400 level. All nine (9) credits must be in the same application focus area. It is recommended that students use the application focus area list to select a course that meets a General Education requirement (GS/GHW) and serves as a prerequisite for more advanced coursework within the application focus. This course does not count as part of the 9 credits of application focus sequence.

Business (Minor)		
Code	Title	Credits
ECON 102	Introductory Microeconomic Analysis and Police	:у 3
or ECON 104	Introductory Macroeconomic Analysis and Poli	су
ACCTG 211	Financial and Managerial Accounting for Decision	ion 4
MGMT 301	Basic Management Concepts	3
MKTG 301	Principles of Marketing	3
IST 432	Legal and Regulatory Environment of Informati Science and Technology (Required for CYAOP major)	on 3
One (1) three cred disciplines: 1	dit 400-level business course from the following	3
Accounting		
Business Adm	inistration	
Business Law		
Energy Busine	ss and Finance	
Economics		
Entrepreneurs	hip	
Finance		
Financial Serv	ices	
Health Policy a	and Administration	
International E	Business	
Management I	nformation Systems	
Management		
Risk Managem	nent	
Supply Chain I	Management	
Statistics		

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 (Cour Substitute for IST 140) 2	se 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	Data Structures	3
or CMPSC 465	Data Structures and Algorithms	
Two (2) additional work in computer	CMPSC courses for six more credits of 400-level science	6

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

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.

² Prerequisite: ALEKS score > 45

Cybersecurity Analytics and Operations, B.S. at Greater Allegheny 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 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 Course	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 Course	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 Application Focus Selection 3	3
Application Focus Selection 2	3 General Education Course	3
General Education Course	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 Course	3 Application Focus Selection 4	3
General Education Course	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:

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:

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

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.

Cybersecurity Analytics and Operations, B.S. at Lehigh Valley 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
IST 140*#	3 CYBER 221*	3
SRA 111 [†]	3 IST 220 ^{*#}	3
CYBER 100*#	3 General Education Selection	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
CYBER 451 [*]	3 CYBER 366 [*]	3
SRA 231*	3 SRA 311 [*]	3
SRA 365 [*]	3 Application Focus Selection 1	3
General Education Selection	3 General Education Selection	3
	15	15

Fourth Year

Fall	Credits Spring	Credits
CYBER 456*	3 CYBER 440 [*]	3
IST 432*	3 CYBER 454 [*]	3
Application Focus Selection 2	3 IST 432 [*]	3
General Education Selection	3 Application Focus Selection 3	3
General Education Selection	3 Elective	3
	IST 495	1
	15	16

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

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.

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 CYBER 221 or 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 1 ⁶	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 2 ⁶	3 General Education Course	3
	15	15

Fourth Year

Fall	Credits Spring	Credits
CYBER 456 or IST 456*	3 CYBER 440 [*]	3
CYBER 451 or IST 451*	3 IST 432 [*]	3
Application Focus Selection 3 ⁶	3 CYBER 454 or 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
- 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.
- 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.
- SCM 200 may be substituted as an alternative to STAT 200 to satisfy the Entrance-to-Major requirement.
- 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.

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.

Application Focus Areas:

Students may select from the Application Focus Lists found on the College of IST Suggested Academic Plan for CYAOP BS degree (https://bulletins.psu.edu/undergraduate/colleges/information-sciences-technology/cybersecurity-analytics-operations-bs/#suggestedacademicplantext), or create a custom 3-course application focus in consultation with their academic adviser. Note that not all courses are available at the Schuylkill campus.

Students are required to pick one track to fulfill the degree requirements. Students must pick three (3) credits at the 400 level. All nine (9) credits must be in the same application focus area. It is recommended that students use the application focus area list to select a course that meets a General Education requirement (GS/GHW) and serves as a prerequisite for more advanced coursework within the application focus. This course does not count as part of the 9 credits of application focus sequence.

Below are the options supported from the Schuylkill campus.

Application Development

Code	Title	redits
IST 311	Object-Oriented Design and Software Application	ıs 3
or HCDD 311		
IST 331	Foundations of Human-Centered Design	3
or HCDD 331		
IST 361	Application Development Design Studio II	3
IST 402	Emerging Issues and Technologies	3
IST 411	Distributed-Object Computing	3
IST 412	The Engineering of Complex Software Systems	3

selected in consultation with a teaching CYBER faculty member and an academic adviser.

Law and Policy

Cybersecurity careers in law enforcement require knowledge of laws and policies focused on the handling of evidence related to digital forensics and monitoring. Individuals in the private sector and government agencies must also understand and adhere to these topics as they involve cybersecurity. The Law and Policy focus is for students who want to understand law and policy as they relate to digital data.

Code	Title	Credits
COMM 404	Telecommunications Law	3
CRIM/CRIMJ/ SOC 406	Sociology of Deviance	3
CRIM 430	American Correctional System	3
CRIM/CRIMJ 451	Race, Crime, and Justice	3
CRIM/CRIMJ/ SOC 467	Law and Society	3
CRIM 469	Seminar in the Law	3-4
CRIMJ 304	Security Administration	3
CRIMJ 430	Alternatives to Incarceration	3
CRIMJ 435	Border Security	3
HLS/PADM 401		3
IST 452	Legal and Regulatory Environment of Privacy an Security	d 3
PLSC 438	National Security Policies	3
PLSC/CRIMJ 439	The Politics of Terrorism	3
PLSC 440	Globalization and Its Implications	3
PLSC 442	American Foreign Policy	3
PLSC/STS 460	Science, Technology, and Public Policy	3
PLSC 467	International Relations of the Middle East	3
PLSC 471	American Constitutional Law	3
PLSC 487	International Law and Organizations	3

Business

Students should choose 2 courses from the following: ACCTG 211, MGMT 301, or MKTG 301.

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 Application Focus

There is an option for a student to create a custom 3-course application focus sequence. It must be a coherent sequence of courses that provides context for the student in terms of cybersecurity content. It must contain three (3) credits of 400-level coursework. The focus area courses must be

Cybersecurity Analytics and Operations, B.S. at York 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*#	3 IST 210 ^{*#}	3
IST 140*#	3 IST 220 ^{*#}	3
ENGL 15 or 30H (GWS) [‡]	3 IST 242 ^{*#}	3
PSU 8	1 General Education Course	3
SRA 111 (GS)*†	3 General Education Course	3
General Education Course	3	
	16	15

Second Year

Fall	Credits Spring	Credits
CYBER 221*	3 IST 230 [*]	3
CYBER 262*	3 IST 256 [*]	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
CYBER 451*	3 CYBER 366 [*]	3
SRA 231*	3 CYBER 342W [*]	3
ENGL 202C or 202D (GWS) [‡]	3 IST 432 [*]	3
Application Focus Selection 2	3 SRA 311 [*]	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 [*]	3
CYBER 456 [*]	3 CYBER 454 [*]	3
SRA 365 [*]	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 124

- * 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:

- · Application Focus Lists:
 - Custom (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.