

CYBERSECURITY ANALYTICS AND OPERATIONS, B.S. (ALTOONA)

Seven Penn State campuses are scheduled for closure after Spring 2027: DuBois, Fayette, New Kensington, Mont Alto, Shenango, Wilkes-Barre, and York. New students are not being admitted at these campuses.

Begin Campus: Any Penn State Campus

End Campus: Altoona

Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2026-27 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 Altoona 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 ^{#1}	3 IST 210 ^{*#}	3
CYBER 100 (FYS) ^{*#1}	3 IST 220 ^{*#1}	3
MATH 110 (GQ) ^{*‡}	4 SRA 111 (GS) ^{*†1}	3
CAS 100 (GWS) [‡]	3 ENGL 15 or 30H (GWS) [‡]	3
PSU 3	1 Application Focus	3
General Education (GN, GA, GH, GS, or GHW)	3	
	17	15

Second Year

Fall	Credits Spring	Credits
IST 242 ^{*#1}	3 IST 261 [*]	3
STAT 200 (GQ) ^{*‡#}	4 SRA 211 [*]	3
CYBER 262 [*]	3 IST 230 [*]	3
SRA 221 [*]	3 SRA 231 [*]	3
Application Focus	3 General Education (GN, GA, GH, GS, or GHW)	3
	16	15

Third Year

Fall	Credits Spring	Credits
CYBER 362 [*]	3 CYBER 342W [*]	3
IST 451 [*]	3 IST 454 [*]	3
SRA 365 [*]	3 SRA 311W [*]	3
ENGL 202C or 202D (GWS) [‡]	3 CYBER 366 [*]	3

General Education (GN, GA, GH, GS, or GHW)	3 Application Focus	3
General Education (GHW)	1.5	
	16.5	15

Fourth Year

Fall	Credits Spring	Credits
IST 432 [*]	3 CYBER 440 [*]	3
IST 456 [*]	3 Application Focus 400 Level	3
SRA 472 [*]	3 General Education (GN, GA, GH, GS, or GHW)	3
General Education (GN, GA, GH, GS, or GHW)	3 Elective	3
General Education (GN, GA, GH, GS, or GHW)	3 Elective	3
General Education (GHW)	1.5	
	16.5	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/SRA/CYBER course offered both fall and spring semesters at Altoona. Otherwise, IST/SRA/CYBER courses are only offered once per academic year.

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:

- 1 credit of IST 495 Internship is also required.

Application Focus Areas:

- Students pick one of the application focus areas below. All 9 credits must be in the same application focus area and at least 3 credits must be at the 400-level.
- **Communications Focus**
 - Any two COMM courses and one of the following: COMM 401, COMM 408, COMM 413W, COMM 436, COMM 472, COMM 481
 - Any two CRIMJ courses and one of the following: CRIMJ 406, CRIMJ 423, CRIMJ 431, CRIMJ 441, CRIMJ 450W, CRIMJ 451, CRIMJ 453, CRIMJ 465

- Any two HDFS courses and one of the following: HDFS 401, HDFS 402, HDFS 411, HDFS 414, HDFS 418, HDFS 429, HDFS 433, HDFS 455, HDFS 465
- Any two PSYCH courses and one of the following: PSYCH 414, PSYCH 439, PSYCH 445, PSYCH 456, PSYCH 475, PSYCH 481, PSYCH 490
- Any two SOC courses and one of the following: SOC 405, SOC 406, SOC 469
- **Information Technology Focus**
 - Any two of the following:
 - IST 110
 - DS 200
 - A-I 100
 - IST 256 or IST 261 (whichever one is not taken for the major)
 - IST 260W
 - IST 302, ETI 302, ITECH 308
 - HCDD 331
 - And ETI 461, ITECH 461, or IST 402
- **Business Applications Focus**
 - Any two BA, MGMT, ECON courses and
 - One of the following:
 - BA 421 - Project Management (Prerequisite: BA 321 or BA 322)
 - BA 422W - Strategic Business Planning (Prerequisite: BA 321 and BA 322 and BA 421 and FIN 301 and MGMT 301 and MKTG 301 and SCM 301)
 - BA 462 - Business Strategy (Prerequisite: FIN 301 and MGMT 301 and MKTG 301 and BA 364Y and seventh-semester standing or higher)
 - ENTR 430 - Entrepreneurship and New Product Development (Prerequisite: ENTR 300)
 - MKTG 422 - Advertising and Sales Promotion Management (Prerequisite: MKTG 330 or MKTG 342)
 - ECON 428 - Environmental Economics (Prerequisite: ECON 302 or ECON 323)
 - ECON 474 - Experimental and Behavioral Economics (Prerequisite: ECON 102 and ECON 104)
- **Criminal Justice Option**
 - Any two CRIMJ courses and
 - One of the following:
 - CRIMJ 406 - Sociology of Deviance
 - CRIMJ 423 - Sexual and Domestic Violence
 - CRIMJ 431 - Offender and Prisoner Rights
 - CRIMJ 441 - The Juvenile Justice System
 - CRIMJ 455 - Contemporary Issues in Law Enforcement
 - CRIMJ 465 - Ethics in Criminal Justice
 - CRIMJ 497 - (The Psychology of Gangs)