

INFORMATION TECHNOLOGY, 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.

Advanced IT Selection – All Options

As noted in each Suggested Academic Plan below, all options of the Information Technology, B.S. major require students to select 300 or 400 level Advanced IT courses from a College-approved list. Students in the Business Application option must select 3 credits of these Advanced IT courses. Students in all other options must select 6 credits of these Advanced IT courses. The list of Advanced IT courses that all students may choose from includes the following:

Code	Title	Credits
IST 402	Emerging Issues and Technologies	3
IST 413	Usability Engineering	3
IST 425	New Venture Creation	3
IST 431	The Information Environment	3
IST 446	An Introduction to Building Computer/Video Games	3
IST 454	Computer and Cyber Forensics	3
IST 456	Information Security Management	3
MIS 390	Foundations of Information Systems	3
MIS 404	Introduction to ERP and Business Processes	3
IST 301	Information and Organizations	3
IST 420	Fundamentals of Systems and Enterprise Integration	3
IST 421	Advanced Enterprise Integration: Technologies and Applications	3
IST 432	Legal and Regulatory Environment of Information Science and Technology	3
IST 452	Legal and Regulatory Environment of Privacy and Security	3

Application Development Option: Information Technology, B.S. at Abington Campus

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First Year			
Fall	Credits	Spring	Credits
ENGL 15 or 30H (GWS) [†]	3	CAS 100 (GWS) [‡]	3
IST 110 or CYBER 100 ^{*#}	3	MATH 110 or 140 (GQ) [‡]	4
IST 140 ^{*#} or CMPSC 121 (GQ) ^{#‡} or CMPSC 131 ^{*#}	3	IST 220 ^{*#}	3
SRA 111 (GS) ^{*†}	3	General Education Course (GN or GA or GH)	3
IST 111S (First-Year Seminar)	1	IST 242 [*]	3
General Education Course (GN or GA or GH) or Elective	3		
	16		16

Second Year				
Fall	Credits	Spring	Credits	Summer
STAT 200 [‡] (GQ) or SCM 200 [‡] (GQ) or DS 200 [*]	4	Business Selection [*]	3	IST 495 [*]
IST 256 [*]	3	ENGL 202C or 202D (GWS) [‡]	3	
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) [†]	3	General Education Course (GN or GA or GH)	3	
Elective or General Education Course (GN/GA/ GH)	3	IST 210 ^{*#}	3	
SRA 221 [*]	3	IST 230 [*]	3	
		IST 390	1	
	16		16	1

Third Year				
Fall	Credits	Spring	Credits	Summer
IST 302 [*]	3	IST 260W [*]	3	IST 495 [*]
IST 331 [*]	3	IST 311 (Option 2) [*]	3	
IST 261 or 361 (Option 1) [*]	3	Networking Selection [*]	3	
General Education Course (GN or GA or GH)	3	IST 402 (Advanced IT Selection 1) [*]	3	

General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	IST 390	1	
	15	16	1

Fourth Year

Fall	Credits Spring	Credits
ETI 461*	3 IST 440W*	3
IST 411 (Option 3)*	3 IST 412 or 413 (Option 4)*	3
General Education Course (GHW)	3 IST 446 or MIS 404 (Advanced IT Selection 2)*	3
Elective	3 General Education Course (GN or GA or GH)	3
	Elective	2
	IST 390	1
	12	15

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:

• Advanced IT Courses (All Options) Course List:

- IST 301
- IST 402
- IST 413
- IST 420
- IST 421
- IST 425
- IST 431
- IST 432
- IST 446
- IST 452

- IST 454
- IST 456
- ENGR 425
- MGMT 425
- MIS 301
- MIS 390
- MIS 404
- SCM 340

• Business Selection Courses (cannot double count with other Additional or Option requirements):

- ACCTG 211
- BA 100
- ECON 102
- ECON 104
- MGMT 301
- MKTG 301

• Networking Selection Courses (cannot double count with other Additional or Option requirements):

- CYBER 262
- IST 226
- IST 451
- IST 454

Application Development Courses: (Total 18 Credits)

• Select 12 credits, with at least 3 credits at the 400 level from:

- IST 261
- IST 311
- IST 361
- IST 411
- IST 412
- IST 413

• Select 6 credits, Supporting Courses from:

- IST 301
- IST 402
- IST 413
- IST 420
- IST 421
- IST 425
- IST 431
- IST 432
- IST 446
- IST 452
- IST 454
- IST 456
- ENGR 425
- MGMT 425
- MIS 301
- MIS 390
- MIS 404
- SCM 340

Business Applications Option: Information Technology, B.S. at Abington Campus

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First Year

Fall	Credits	Spring	Credits
ENGL 15 or 30H (GWS) [‡]	3	CAS 100 (GWS) [‡]	3
IST 110 or CYBER 100 ^{*#}	3	MATH 110 or 140 (GQ) [‡]	4
IST 140 ^{*#} or CMPSC 121 (GQ) ^{#‡} or CMPSC 131 ^{*#}	3	IST 220 ^{*#}	3
SRA 111 (GS) ^{*†}	3	General Education Course (GN or GA or GH)	3
IST 111S (First-Year Seminar)	1	IST 242 [*]	3
General Education Course (GN or GA or GH) or Elective	3		
	16		16

Second Year

Fall	Credits	Spring	Credits	Summer	Credits
IST 256 [*]	3	Business Selection [*]	3	IST 495 [*]	1
STAT 200 [‡] (GQ) or SCM 200 [‡] (GQ) or DS 200 [*]	4	ENGL 202C or 202D (GWS) [‡]	3		
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) [‡]	3	General Education Course (GN or GA or GH)	3		
Elective or General Education Course (GN/GA/ GH)	3	IST 210 ^{*#}	3		
SRA 221 [*]	3	IST 230 [*]	3		
		IST 390	1		
	16		16		1

Third Year

Fall	Credits	Spring	Credits	Summer	Credits
IST 302 [*]	3	IST 260W [*]	3	IST 495 [*]	1

IST 331 [*]	3 FIN 301, MGMT 301, MKTG 301, or SCM 301 (Option 2) [*]	3
ACCTG 211 (Option 1) [*]	4 Advanced IT Selection - Business Option [*]	3
General Education Course (GN or GA or GH)	3 Networking Selection [*]	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	IST 390	1
	16	16

Fourth Year

Fall	Credits	Spring	Credits
ETI 461 [*]	3	IST 440W [*]	3
Option 3 (Business Course) [*]	3	400-Level Business Course (Option 4) [*]	3
General Education Course (GHW)	3	IST 446 or MIS 404 (Advanced IT Selection) [*]	3
Elective	3	General Education Course (GN or GA or GH)	3
		Elective	1
		IST 390	1
	12		14

Total Credits 124

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Advising Notes:

- Advanced IT Courses (All Options) Course List:
 - IST 301
 - IST 402
 - IST 413
 - IST 420
 - IST 421
 - IST 425
 - IST 431
 - IST 432
 - IST 446
 - IST 452
 - IST 454
 - IST 456
 - ENGR 425
 - MGMT 425
 - MIS 301
 - MIS 390
 - MIS 404
 - SCM 340
- Business Selection Courses (cannot double count with other Additional or Option requirements):
 - ACCTG 211
 - BA 100
 - ECON 102
 - ECON 104
 - MGMT 301
 - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
 - CYBER 262
 - IST 226
 - IST 451
 - IST 454

- Select 3 credits, Supporting Courses- Advanced IT from course list:

- ENGR 425
- MGMT 425
- MIS 301
- MIS 345
- MIS 390
- MIS 404
- MIS 431
- SCM 340
- IST 301
- IST 402
- IST 413
- IST 420
- IST 421
- IST 425
- IST 431
- IST 432
- IST 446
- IST 452
- IST 454
- IST 456

Business Application Courses: (Total 19 Credits)

- ACCTG 211
- Select 3 Credits from: FIN 301,MGMT 301,MKTG 301,SCM 301
- Select 6 credits, with at least 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
- Select 3 credits, Supporting Courses - Advanced IT - Business courses from course list:
 - ENGR 425
 - IST 425
 - IST 456
 - MGMT 425
 - MIS 301
 - MIS 345
 - MIS 390
 - MIS 404
 - MIS 431
 - SCM 340

Networking Option: Information Technology, B.S. at Abington Campus

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First Year

Fall	Credits	Spring	Credits
ENGL 15 or 30H (GWS) [‡]	3	CAS 100 (GWS) [‡]	3
IST 110 or CYBER 100 ^{*#}	3	MATH 110 or 140 (GQ) [‡]	4
IST 140 ^{*#} or CMPSC 121 (GQ) ^{#‡} or CMPSC 131 ^{*#}	3	IST 220 ^{*#}	3
SRA 111 (GS) ^{††}	3	General Education Course (GN or GA or GH)	3
IST 111S (First-Year Seminar)	1	IST 242 [*]	3
General Education Course (GN or GA or GH) or Elective	3		
	16		16

Second Year

Fall	Credits	Spring	Credits	Summer	Credits
IST 256 [*]	3	IST 226 or CYBER 262 (Networking Selection) [*]	3	IST 495 [*]	1
STAT 200 [‡] (GQ) or SCM 200 [‡] (GQ) or DS 200 [*]	4	ENGL 202C or 202D (GWS) [‡]	3		
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) [†]	3	General Education Course (GN or GA or GH)	3		
Elective or General Education Course (GN/GA/ GH)	3	IST 210 ^{*#}	3		
SRA 221 [*]	3	IST 230 [*]	3		
		IST 390	1		
	16		16		1

Third Year

Fall	Credits	Spring	Credits	Summer	Credits
IST 302 [*]	3	IST 260W [*]	3	IST 495 [*]	1

IST 331 [*]	3	IST 228 (Option 2) [*]	3
IST 227 (Option 1) [*]	3	Business Selection [*]	3
General Education Course (GN or GA or GH)	3	IST 402 (Advanced IT Selection 1) [*]	3
General Education Course (GN or GA or GH)	3	General Education Course (GN or GA or GH)	3
		IST 390	1
	15		16

Fourth Year

Fall	Credits	Spring	Credits
ETI 461 [*]	3	IST 440W [*]	3
IST 451 (Option 3) [*]	3	IST 454 (Option 4) [*]	3
General Education Course (GHW)	3	IST 446 or MIS 404 (Advanced IT Selection 2) [*]	3
Elective	3	General Education Course (GN or GA or GH)	3
		Elective	2
		IST 390	1
	12		15

Total Credits 124

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- Advanced IT Courses (All Options) Course List:
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 - IST 402
 - IST 413

- IST 420
- IST 421
- IST 425
- IST 431
- IST 432
- IST 446
- IST 452
- IST 454
- IST 456
- ENGR 425
- MGMT 425
- MIS 301
- MIS 390
- MIS 404
- SCM 340
- Business Selection Courses (cannot double count with other Additional or Option requirements):
 - ACCTG 211
 - BA 100
 - ECON 102
 - ECON 104
 - MGMT 301
 - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
 - CYBER 262
 - IST 226
 - IST 451
 - IST 454

- IST 425
- IST 431
- IST 432
- IST 446
- IST 452
- IST 454
- IST 456

Networking Option Courses: (Total 18 Credits)

- Select 12 credits, with at least 3 credits at the 400 level from:
 - CYBER 262
 - IST 225
 - IST 226
 - IST 227
 - IST 228
 - IST 451
 - IST 454
- Select 6 credits, Supporting Courses- Advanced IT from course list:
 - ENGR 425
 - MGMT 425
 - MIS 301
 - MIS 345
 - MIS 390
 - MIS 404
 - MIS 431
 - SCM 340
 - IST 301
 - IST 402
 - IST 413
 - IST 420
 - IST 421