

INFORMATION TECHNOLOGY, B.S. (BERKS)

Begin Campus: Any Penn State Campus

End Campus: Berks

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*).

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

Second Year		
Fall	Credits Spring	Credits
ECON 102, 104, PLSC 1, PLSC 14, or PSYCH 100 [†]	3 ENGL 202C or 202D (GWS) [‡]	3
IST 210 ^{*#}	3 IST 256 [*]	3
IST 230 [*]	3 IST 260W [*]	3
SCM 200 or STAT 200 (GQ) [‡]	4 SRA 221 [*]	3
General Education Course (GN or GA or GH)	3 Business Selection	3
	16	15

Third Year		
Fall	Credits Spring	Credits
IST 302 [*]	3 IST 261 (Option 2) [*]	3
IST 331 [*]	3 IST 411 (Option 3) [*]	3
IST 311 (Option 1) [*]	3 Networking Selection [*]	3
General Education Course (GN)	3 General Education Course (Integrative Studies) [*]	3
General Education Course (Integrative Studies)	3 General Education Course (Exploration)	3
	15	15

Fourth Year		
Fall	Credits Spring	Credits
IST 495 [*]	1 IST 440W [*]	3
ETI 461 [*]	3 IST 413 (Option 4) [*]	3
Advanced IT Selection 1 [*]	3 Advanced IT Selection 2 [*]	3
General Education Course (GHW)	3 Elective	3
Elective	3 Elective	2
	13	14

Total Credits 120

* 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 For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.

² The following courses are offered Fall Semester only: ETI 461, IST 230, IST 302, IST 311, IST 331.

³ The following courses are offered Spring Semester only: ENGL 202C, IST 256, IST 260W, IST 261, IST 411, IST 413.

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:

- 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
- Option Courses:
 - Application Development:
 - 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
 - Business Applications:
 - 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
 - Cybersecurity:
 - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
 - Security and Risk Analysis:
 - Select 12 credits, with at least 3 credits at the 400 level from: SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452, IST 456

Business Applications Option: Information Technology, B.S. at Berks 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
ENGL 15 or 30H (GWS) [‡]	3 CAS 100A or 100B (GWS) [‡]	3
IST 110 or CYBER 100 ^{*#}	3 MATH 110 or 140 (GQ) [‡]	4
IST 140 ^{*#}	3 IST 220 ^{*#}	3
SRA 111 (GS) ^{*†}	3 IST 242 [*]	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
First-Year Seminar (IST 111S recommended)	1	
	16	16

Second Year

Fall	Credits Spring	Credits
ECON 102, 104, PLSC 1, PLSC 14, or PSYCH 100 [†]	3 ENGL 202C or 202D (GWS) [‡]	3
IST 210 ^{*#}	3 IST 256 [*]	3
IST 230 [*]	3 IST 260W [*]	3
SCM 200 or STAT 200 (GQ) [‡]	4 SRA 221 [*]	3
General Education Course (GN or GA or GH)	3 ACCTG 211 (Option 1) [*]	4
	16	16

Third Year

Fall	Credits Spring	Credits
IST 302 [*]	3 Option 2 [*]	3
IST 331 [*]	3 Option 3 [*]	3
Business Selection [*]	4 Networking Selection [*]	3
General Education Course (GN)	3 General Education Course (Integrative Studies)	3
General Education Course (Integrative Studies)	3 General Education Course (Exploration)	3
	16	15

Fourth Year

Fall	Credits Spring	Credits
IST 495 [*]	1 IST 440W [*]	3
ETI 461 [*]	3 Option 4 [*]	3
Advanced IT Selection - Business Option [*]	3 Advanced IT Selection [*]	3
General Education Course (GHW)	3 Elective	3
Elective	3 Elective	1
	13	13

Total Credits 121

* 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 For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.
² The following courses are offered Fall Semester only: ETI 461, IST 230, IST 302, IST 331.
³ The following courses are offered Spring Semester only: ENGL 202C, IST 256, IST 260W.

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:

- 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
- Option Courses:
 - Application Development:
 - 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
 - Business Applications:
 - 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
 - Cybersecurity:
 - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
 - Security and Risk Analysis:

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- Select 12 credits, with at least 3 credits at the 400 level from:
SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452,
IST 456

Custom Information Technology Option: Information Technology, B.S. at Berks 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
ENGL 15 or 30H (GWS) [‡]	3 CAS 100A or 100B (GWS) [‡]	3
IST 110 or CYBER 100 ^{*#}	3 MATH 110 or 140 (GQ) [‡]	4
IST 140 ^{*#}	3 IST 220 ^{*#}	3
SRA 111 (GS) ^{*†}	3 IST 242 [*]	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
First-Year Seminar (IST 111S recommended)	1	
	16	16

Second Year

Fall	Credits Spring	Credits
ECON 102, 104, PLSC 1, PLSC 14, or PSYCH 100 [†]	3 ENGL 202C or 202D (GWS) [‡]	3
IST 210 ^{*#}	3 IST 256 [*]	3
IST 230 [*]	3 IST 260W [*]	3
SCM 200 or STAT 200 (GQ) [‡]	4 SRA 221 [*]	3
General Education Course (GN or GA or GH)	3 Business Selection [*]	3
	16	15

Third Year

Fall	Credits Spring	Credits
IST 302 [*]	3 Option 2 [*]	3
IST 331 [*]	3 Option 3 [*]	3
Option 1 [*]	3 Networking Selection [*]	3
General Education Course (GN)	3 General Education Course (Integrative Studies) [*]	3
General Education Course (Integrative Studies)	3 General Education Course (Exploration)	3
	15	15

Fourth Year

Fall	Credits Spring	Credits
IST 495 [*]	1 IST 440W [*]	3
ETI 461 [*]	3 Option 4 [*]	3
Advanced IT Selection 1 [*]	3 Advanced IT Selection 2 [*]	3
General Education Course (GHW)	3 Elective	3
Elective	3 Elective	2
	13	14

Total Credits 120

* 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 For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.
² The following courses are offered Fall Semester only: ETI 461, IST 230, IST 302, IST 331.
³ The following courses are offered Spring Semester only: ENGL 202C, IST 256, IST 260W.

University Requirements and General Education Notes:

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Advising Notes:

- 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
- Option Courses:
 - Application Development:
 - 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
 - Business Applications:
 - 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
 - Cybersecurity:
 - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
 - Security and Risk Analysis:

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- Select 12 credits, with at least 3 credits at the 400 level from:
SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452,
IST 456

CyberSecurity Option: Information Technology, B.S. at Berks Campus

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First Year

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

Second Year

Fall	Credits Spring	Credits
ECON 102, 104, PLSC 1, PLSC 14, or PSYCH 100 [†]	3 ENGL 202C or 202D (GWS) [‡]	3
IST 210 ^{*#}	3 IST 256 [*]	3
IST 230 [*]	3 IST 260W [*]	3
SCM 200 or STAT 200 (GQ) [‡]	4 SRA 221 [*]	3
General Education Course (GN or GA or GH)	3 CYBER 262 (Option 1) [*]	3
	16	15

Third Year

Fall	Credits Spring	Credits
IST 302 [*]	3 Option 2 [*]	3
IST 331 [*]	3 Option 3 [*]	3
Business Selection [*]	3 Networking Selection [*]	3
General Education Course (GN)	3 General Education Course (Integrative Studies)	3
General Education Course (Integrative Studies)	3 General Education Course (Exploration)	3
	15	15

Fourth Year

Fall	Credits Spring	Credits
IST 495 [*]	1 IST 440W [*]	3
ETI 461 [*]	3 Option 4 [*]	3
Advanced IT Selection 1 [*]	3 Advanced IT Selection 2 [*]	3
General Education Course (GHW)	3 Elective	3
Elective	3 Elective	2
	13	14

Total Credits 120

* 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 For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.
² The following courses are offered Fall Semester only: ETI 461, IST 230, IST 302, IST 331.
³ The following courses are offered Spring Semester only: CYBER 262, ENGL 202C, IST 256, IST 260W.

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Advising Notes:

- 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
- Option Courses:
 - Application Development:
 - 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
 - Business Applications:
 - 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
 - Cybersecurity:
 - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
 - Security and Risk Analysis:

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- Select 12 credits, with at least 3 credits at the 400 level from:
SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452,
IST 456

Security and Risk Analysis Option: Information Technology, B.S. at Berks Campus

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First Year		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) [‡]	3 CAS 100A or 100B (GWS) [‡]	3
IST 110 or CYBER 100 ^{*#}	3 MATH 110 or 140 (GQ) [‡]	4
IST 140 ^{*#}	3 IST 220 ^{*#}	3
SRA 111 (GS) ^{*†}	3 IST 242 [*]	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
First-Year Seminar (IST 111S recommended)	1	
	16	16
Second Year		
Fall	Credits Spring	Credits
ECON 102, 104, PLSC 1, PLSC 14, or PSYCH 100 [†]	3 ENGL 202C or 202D (GWS) [‡]	3
IST 210 ^{*#}	3 IST 256 [*]	3
IST 230 [*]	3 IST 260W [*]	3
SCM 200 or STAT 200 (GQ) [‡]	4 SRA 221 [*]	3
General Education Course (GN or GA or GH)	3 SRA 211 (Option 1) [*]	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 [*]	3 SRA 231 (Option 2) [*]	3
IST 331 [*]	3 Option 3 [*]	3
Business Selection [*]	3 Networking Selection [*]	3
General Education Course (GN)	3 General Education Course (Integrative Studies) [*]	3
General Education Course (Integrative Studies)	3 General Education Course (Exploration)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 [*]	1 IST 440W [*]	3
ETI 461 [*]	3 Option 4 [*]	3
Advanced IT Selection 1 [*]	3 Advanced IT Selection 2 [*]	3
General Education Course (GHW)	3 Elective	3
Elective	3 Elective	2
	13	14
Total Credits 120		

* 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 For General Education Course notations, please be sure to include three (3) credits of United States (US) Cultures and three (3) credits of International (IL) Cultures. Consult adviser for details.
² The following courses are offered Fall Semester only: ETI 461, IST 230, IST 302, IST 331.
³ The following courses are offered Spring Semester only: ENGL 202C, IST 256, IST 260W, SRA 231.

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Advising Notes:

- 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
- Option Courses:
 - Application Development:
 - 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
 - Business Applications:
 - 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
 - Cybersecurity:
 - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
- Security and Risk Analysis:

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- Select 12 credits, with at least 3 credits at the 400 level from:
SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452,
IST 456