# INFORMATION TECHNOLOGY, B.S. (UNIVERSITY COLLEGE)

Begin Campus: Any Penn State Campus

End Campus: Beaver, Brandywine, DuBois, Greater Allegheny, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, Wilkes-Barre, York

# **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 Applications	and 3
IST 432	Legal and Regulatory Environment of Informati Science and Technology	ion 3
IST 452	Legal and Regulatory Environment of Privacy a Security	nd 3

# **Beaver Campus**

## Application Development Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 General Education Course (GN or GA or GH) or Elective	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242*	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
MATH 110 or 140 (GQ) <sup>‡</sup>	4	
	17	15
Second Year		
Fall IST 210 <sup>*#</sup>	Credits Spring 3 IST 256 <sup>*</sup>	Credits 3
IST 230 <sup>*</sup>	3 STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 Business Selection <sup>*</sup>	3
SRA 211 <sup>*</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
Third Year	15	15
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 261 (Option 2)*	3
IST 311 (Option 1) <sup>*</sup>	3 IST 411 (Option 3) <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Networking Selection (IST 454)* or General Education (GA or GN or GH)	3
General Education Course (GN or GA or GH) or	3 General Education Course (GN or GA or GH)	3
Networking Selection (IST 451 or CYBER 262)		
451 or CYBER 262)	3 IST 390	1
451 or CYBER 262)	3 IST 390 <b>15</b>	
451 or CYBER 262) IST 260W <sup>*</sup>		13
451 or CYBER 262) IST 260W <sup>*</sup> Fourth Year Fall	15	13 Credite
451 or CYBER 262) IST 260W <sup>*</sup> Fourth Year Fall IST 495 <sup>*</sup>	15 Credits Spring	13 Credits 3
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451 or CYBER 262) IST 260W <sup>*</sup> Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup> General Education Course	<b>15</b> <b>Credits Spring</b> 1 IST 440W <sup>*</sup> 3 IST 413 (Option 4) <sup>*</sup>	13 Credits 3 3 3
451 or CYBER 262) IST 260W <sup>*</sup> Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup> General Education Course (GHW) General Education Course	<b>15</b> <b>Credits Spring</b> 1 IST 440W <sup>*</sup> 3 IST 413 (Option 4) <sup>*</sup> 3 Advanced IT Selection 1 <sup>*</sup>	<b>13</b> <b>Credits</b> 3 3 3 3 3
451 or CYBER 262) IST 260W <sup>*</sup> Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup> General Education Course (GHW) General Education Course (GN or GA or GH)	15 Credits Spring 1 IST 440W <sup>*</sup> 3 IST 413 (Option 4) <sup>*</sup> 3 Advanced IT Selection 1 <sup>*</sup> 3 Advanced IT Selection 2 <sup>*</sup> 3 General Education Course	1 13 Credits 3 3 3 3 3 3 3 3 3 2

## 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

## **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.

- 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 Beaver Campus

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## First Year

ENGL 15 or 30H (GWS)‡3 CAS 100 (GWS)‡1IST 110*# or CVBER 100*#3 MATH 110 or 140 (GQ)‡1IST 140*# or CMPSC 121 (GQ) ** or CMPSC 131*#3 IST 242*1First-Year Seminar (IST (IST 210*#1 General Education Course (GN or GA or GH) or Elective3General Education Course (GN or GA or GH) or Elective161Second YearFall Credits SpringCredit 200* (GQ) or DS 200*ACCTG 211 (Option 1)*4 Elective or General Education Course (GN/GA/ GH)2IPLSC 14 (GS)*3 General Education Course (GN/GA/ GH)16Third YearFallCredits SpringCredit SpringIST 230*3 STAT 200* (GQ) or DS 200*AACCTG 211 (Option 1)*4 Elective or General Education Course (GN/GA/ GH)16IPLSC 14 (GS)*3 General Education Course (GN or GA or GH)16IST 302*3 Option 2 (MKTG 301)*15IST 331*3 Advanced IT Selection - Business Option (MIS 301)*16Business Selection (MGMT (GN or GA or GH)4 Networking Selection (IST 451)*3 General Education Course (GN or GA or GH)IST 260W*3 General Education Course (GN or GA or GH)3 General Education Course (GN or GA or GH)16IST 260W*3 General Education Course (GN or GA or GH)1616IST 260W*3 General Education Course (GN or GA or GH)16IST 260W*3 General Education Course (GN or GA or GH)16IST 260W*3 General Education	First rear			
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IST 302 <sup>*</sup> 3 Option 2 (MKTG 301) <sup>*</sup> IST 331 <sup>*</sup> 3 Advanced IT Selection - Business Option (MIS 301) <sup>*</sup> Business Selection (MGMT 4 Networking Selection (IST 451) <sup>*</sup> General Education Course 3 General Education Course (GN or GA or GH) or (GN or GA or GH) Networking Selection (CYBER 262 or IST 451) IST 260W <sup>*</sup> 3 General Education Course (GN or GA or GH) IST 260W <sup>*</sup> 3 General Education Course (GN or GA or GH) IST 390 16 16 Fourth Year Fall Credits Spring Credit IST 495 <sup>*</sup> 1 IST 440W <sup>*</sup> ETI 461 <sup>*</sup> 3 Option 4 (SCM 460 or MIS		Credits Spring	Credits	
IST 331 <sup>*</sup> 3 Advanced IT Selection - Business Option (MIS 301) <sup>*</sup> Business Selection (MGMT 301) <sup>*</sup> 4 Networking Selection (IST 301) <sup>*</sup> 451) <sup>*</sup> General Education Course (GN or GA or GH) or Networking Selection (CYBER 262 or IST 451) IST 260W <sup>*</sup> 3 General Education Course (GN or GA or GH) IST 260W <sup>*</sup> 3 General Education Course (GN or GA or GH) IST 390 16 1 Fourth Year Fall Credits Spring Credit IST 495 <sup>*</sup> 1 IST 440W <sup>*</sup> ETI 461 <sup>*</sup> 3 Option 4 (SCM 460 or MIS			3	
Business Selection (MGMT 4 Networking Selection (IST 451)* General Education Course 3 General Education Course (GN or GA or GH) or (GN or GA or GH) Networking Selection (CYBER 262 or IST 451) IST 260W* 3 General Education Course (GN or GA or GH) IST 260W* 3 General Education Course (GN or GA or GH) IST 390 16 Fourth Year Fall Credits Spring Credit IST 495* 1 IST 440W* ETI 461* 3 Option 4 (SCM 460 or MIS		3 Advanced IT Selection -	3	
General Education Course (GN or GA or GH) or Networking Selection (CYBER 262 or IST 451)       3 General Education Course (GN or GA or GH)         IST 260W*       3 General Education Course (GN or GA or GH)         IST 260W*       3 General Education Course (GN or GA or GH)         IST 390       16         Fourth Year       15T 440W*         Fall       Credits Spring       Credit 1ST 440W*         ETI 461*       3 Option 4 (SCM 460 or MIS		4 Networking Selection (IST	3	
(GN or GA or GH) IST 390 16 Fourth Year Fall Credits Spring Credit IST 495 <sup>*</sup> 1 IST 440W <sup>*</sup> ETI 461 <sup>*</sup> 3 Option 4 (SCM 460 or MIS	General Education Course (GN or GA or GH) or Networking Selection		3	
I6         I           Fourth Year         Credits Spring         Credits           Fall         Credits Spring         Credits           IST 495 <sup>*</sup> 1 IST 440W <sup>*</sup> ETI 461 <sup>*</sup> 3 Option 4 (SCM 460 or MIS	IST 260W <sup>*</sup>		3	
Fourth YearCredits SpringCreditFallCredits SpringCreditIST 495*1 IST 440W*CreditETI 461*3 Option 4 (SCM 460 or MIS		IST 390	1	
FallCredits SpringCreditIST 495*1 IST 440W*ETI 461*3 Option 4 (SCM 460 or MIS		16	16	
IST 495*         1 IST 440W*           ETI 461*         3 Option 4 (SCM 460 or MIS	Fourth Year			
IST 495*         1 IST 440W*           ETI 461*         3 Option 4 (SCM 460 or MIS	Fall	Credits Spring	Credits	
ETI 461 <sup>*</sup> 3 Option 4 (SCM 460 or MIS	IST 495 <sup>*</sup>		3	
431)			3	

Option 3 (SCM 301) <sup>*</sup>	3 Advanced IT Selection (IST 456 or SCM 340 or MIS 345 or MIS 390)*	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	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

## **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

## CyberSecurity Option: Information Technology, 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
ENGL 15 (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 242 <sup>*</sup>	3
SRA 111 <sup>*†</sup>	3 General Education Course (GN or GA or GH)	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH) or Elective	3
MATH 110 or 140 (GQ) <sup>‡</sup>	4	
	17	15
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 STAT 200‡ (GQ) or SCM 200‡ (GQ) or DS 200*	4
CYBER 262 (Option 1)*	3 ENGL 202C or 202D (GWS) $\ddagger$	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 General Education Course (GN or GA or GH)	3
SRA 221 <sup>*</sup>	3 General Education Course (GN or GA or GH) or Elective	3
	15	16
Third Year	15	16
Fall	15 Credits Spring	16 Credits
Fall	Credits Spring	Credits
Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1	Credits 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course	Credits 3 3
<b>Fall</b> IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH)	Credits 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course	<b>Credits</b> 3 3 3 1
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course (GN or GA or GH) General Education Course	Credits 3 3 3 1 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	Credits 3 3 3 1 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST 451) <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	Credits 3 3 3 1 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST 451) <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	Credits 3 3 3 1 3 3 3 3 3 1 6
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST 451) <sup>*</sup> Fourth Year Fall	Credits Spring 3 IST 260W* 3 Advanced IT Selection 1 (MIS 301)* 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) 15 Credits Spring	Credits 3 3 3 1 3 3 3 3 3 6 Credits 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 (IST 423) <sup>*</sup> IST 260W Networking Selection (IST 451) <sup>*</sup> Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Advanced IT Selection 1 (MIS 301) <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 IST 390 3 General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) 15 Credits Spring 1 IST 440W 3 Advanced IT Selection 2 (IST	Credits 3 3 3 1 3 3 3 3 3 <b>16</b> Credits 3

Elective	3 General Education Course (GN or GA or GH)	3
	Elective	3
	13	18

# **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.

- 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
  - · 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

6 Information Technology, B.S. (University College)

# **Brandywine Campus**

# Application Development Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS)*†	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	CreditsSpring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
IST 261 (Option 1)*	3 Business Selection*	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 311 (Option 2) <sup>*</sup>	3 IST 331 <sup>*</sup>	3
Networking Selection <sup>*</sup>	3 IST 411 (Option 3) <sup>*</sup>	3
Elective or General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH) <sup>*</sup>	3
General Education Course	2 Company Education Courses	3
(GN or GA or GH)	3 General Education Course (GN or GA or GH)	5
(GN or GA or GH)		15
(GN or GA or GH) Fourth Year	(GN or GA or GH)	
Fourth Year Fall	(GN or GA or GH)	
Fourth Year Fall IST 495 <sup>*</sup>	(GN or GA or GH) 15	15
Fourth Year Fall	(GN or GA or GH) 15 Credits Spring	15 Credits
Fourth Year Fall IST 495 <sup>*</sup>	(GN or GA or GH) 15 Credits Spring 1 IST 440W <sup>*</sup>	15 Credits 3
Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	(GN or GA or GH) 15 Credits Spring 1 IST 440W <sup>*</sup> 3 Advanced IT Selection 2 <sup>*</sup> 3 General Education Course	15 Credits 3 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

## **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.

- 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 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
ENGL 15 or 30H (GWS) $^{\ddagger}$	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) $\ddagger$	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ACCTG 211 (Option 1)*	4
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/	3 General Education Course (GN or GA or GH)	3
GH)		
	16	16
Third Year		16
Third Year Fall	Credits Spring	16 Credits
Third Year Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup>	Credits
Third Year Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	Credits 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection -	Credits 3 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course	Credits 3 3 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course	<b>Credits</b> 3 3 3 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH)	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 16	<b>Credits</b> 3 3 3 3 3 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH)	Credits 3 3 3 3 3 3 3 15
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W <sup>*</sup>	Credits 3 3 3 3 3 3 3 3 5 Credits
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 16 Credits Spring	Credits 3 3 3 3 3 3 3 5 75 Credits 3
Third Year Fall IST 302 <sup>*</sup> Option 2 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W <sup>*</sup> 3 Option 4 <sup>*</sup>	Credits 3 3 3 3 3 15 Credits 3 3 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

### **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.

- 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

## Custom Information Technology Option: Information Technology, 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

First Year		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) $^{\ddagger}$	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection <sup>*</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
Networking Selection*	3 IST 331 <sup>*</sup>	3
Option 1 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 1 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
Option 3 <sup>*</sup>	3 Advanced IT Selection $2^*$	3
•		
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
General Education Course		3

- \* 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.

- 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

# CyberSecurity Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection*	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
Elective or General Education Course (GN/GA/	3 General Education Course (GN or GA or GH)	3
GH)		
GH)	16	15
GH) Third Year	16	
GH) Third Year Fall	16 Credits Spring	Credits
GH) Third Year Fall IST 302 <sup>*</sup>	16	Credits 3
GH) Third Year Fall	16 Credits Spring 3 IST 260W <sup>*</sup>	Credits
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking	16 Credits Spring 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup>	Credits 3 3
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course	<b>16</b> <b>Credits Spring</b> 3 IST 260W <sup>*</sup> 3 IST 331 <sup>*</sup> 3 CYBER 366 (Option 2) <sup>*</sup>	Credits 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course	<b>Credits</b> 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course (GN or GA or GH)         15	Credits 3 3 3 3 3 3 3 3 15
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course (GN or GA or GH)         15         Credits Spring	Credits 3 3 3 3 3 3 3 3 5 5 Credits
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course (GN or GA or GH)         15         Credits Spring         1 IST 440W*	Credits 3 3 3 3 3 3 3 5 <b>Credits</b> 3
GH) Third Year Fall IST 302 <sup>*</sup> CYBER 262 (Option 1) <sup>*</sup> IST 451 (Networking Selection) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	16         Credits Spring         3 IST 260W*         3 IST 331*         3 CYBER 366 (Option 2)*         3 Advanced IT Selection 1*         3 General Education Course (GN or GA or GH)         15         Credits Spring         1 IST 440W*         3 IST 454 (Option 4)*	Credits 3 3 3 3 3 3 15 Credits 3 3 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

## 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.

- 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

# Security and Risk Analysis Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 SRA 211 (Option 1)	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
SRA 231 (Option 2)*	3 IST 331 <sup>*</sup>	3
Networking Selection <sup>*</sup>	3 Business Selection*	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 1*	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 IST 432 (Option 4)*	3
IST 456 (Option 3) $^{*}$	3 Advanced IT Selection $2^*$	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
Elective	3 Elective	2
	13	14
Total Cradite 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

## 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.

- 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

# **DuBois Campus**

# Business Applications Option: Information Technology, B.S. at DuBois 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 110 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3	
PSU 8	1 IST 220 <sup>*#</sup>	3	
IST 140 <sup>*#</sup>	3 MATH 22 (GQ (Elective 2))	3	
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3	
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 General Education Course (GH)	3	
MATH 21 (GQ (Elective 1))	3		
	16	15	
Second Year			
Fall	Credits Spring	Credits	
MATH 110 or 140 (GQ) <sup>‡†</sup>	4 Business Choice 1	3	
IST 226 (Networking Selection) <sup>*</sup>	3 SRA 221	3	
IST 260W <sup>*</sup>	3 General Education Course (GA)	3	
IST 256 <sup>*</sup>	3 General Education Course (GN)	3	
CAS 100A (GWS) <sup>‡</sup>	3 ENGL 202C or 202D (GWS) <sup>‡†</sup>	3	
	16	15	
Third Year			
Fall	Credits Spring	Credits Summer	Credits
ETI 461	3 Business Choice 3	3 IST 495 (Taken Any Time)	1
IST 302	3 Elective	3	
Business Choice 2	3 General Education Course (GH)	3	

	15	16	1
Course (GN)	(GQ) <sup>*‡†</sup>		
Education	200, or DS 200		
General	3 STAT 200, SCM	4	
IST 230 <sup>*</sup>	3 IST 331 <sup>*</sup>	3	
	Course (GH)		
Choice 2	Education		

Fourth Year			
Fall	<b>Credits Spring</b>	Credits	
ECON 14, 102, or 104 (GS)	3 General Education Course (GN)	3	
IST 440W	3 Business Choice	3	
Advanced IT Selection 1 (IST 454)	3 Business Choice 4	3	
General Education Course (GA)	3 Advanced IT Selection 2 (IST 456)	3	
General Education Course (GHW)	3		
	15	12	
Total Cradita 12	1		

### 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

### 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.

## **Program Notes:**

 As long as two Arts (GA) and two Humanities (GH) are taken across the eight semesters, the particular order in which these courses are taken is not relevant. The course series listed above is only one of many possible ways to move through the IST curriculum.

- A student's career/graduate school plans should be considered in developing an individual academic plan. Be sure to consult an adviser in this department when scheduling courses.
- Business Choice:
  - ACCTG 211
  - ECON 102 or ECON 104
  - SCM 301
  - BA 243
  - FIN 301
  - MKTG 301

- MGMT 301
- IB 303
- Advanced IT Selection 1:
  - IST 402
  - IST 413
  - IST 425
  - IST 431
  - IST 446
  - IST 454
  - IST 456
  - MIS 390
  - MIS 404

# Networking Option: Information Technology, B.S. at DuBois 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 110 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3	
PSU 8	1 IST 220 <sup>*#</sup>	3	
IST 140 <sup>*#</sup>	3 MATH 22 (GQ) Elective 2	3	
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3	
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 General Education Course (GH)	3	
MATH 21 (GQ) Elective 1	3		
	16	15	
Second Year			
Fall	Credits Spring	Credits	
IST 225 (Application Focus 1)	3 IST 227 (Application Focus 2)	3	
IST 226 (Networking Selection) <sup>*</sup>	3 IST 228 (Application Focus 3)	3	
IST 260W <sup>*</sup>	3 General Education Course (GA)	3	
IST 256 <sup>*</sup>	3 General Education Course (GN)	3	
CAS 100A (GWS) <sup>‡</sup>	3 ENGL 202C or 202D (GWS) <sup>‡†</sup>	3	
	15	15	
Third Year			
Fall	Credits Spring	Credits Summer	Credits
FTI 461	3 SBA 221	3 IST 495 (Taken	1

	16	16	1
General Education Course (GN)	3 IST 331 <sup>*</sup>	3	
IST 230 <sup>*</sup>	3 STAT 200, SCM 200, or DS 200 (GQ) <sup>*‡†</sup>	4	
MATH 110 or 140 (GQ) <sup>‡†</sup>	4 General Education Course (GH)	3	
IST 302	3 Elective 3	3	
ETI 461	3 SRA 221	3 IST 495 (Taken any Time)	1

Fourth Year			
Fall	<b>Credits Spring</b>	Credits	
General Education Course (GHW)	3 IST 451 (Application Focus 4)	3	
IST 440W	3 General Education Course (GN)	3	
ECON 14, 102, or 104 (GS)	3 Business Choice	3	
Advanced IT #1 (IST 454)	3 Advanced IT Selection 2 (IST 456)	3	
General Education Course (GA)	3		
	15	12	
T. I.O. I'. 10	-		

## 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

### **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.

## **Program Notes:**

 As long as two Arts (GA) and two Humanities (GH) are taken across the eight semesters, the particular order in which these courses are taken is not relevant. The course series listed above is only one of many possible ways to move through the IST curriculum.

- A student's career/graduate school plans should be considered in developing an individual academic plan. Be sure to consult an adviser in this department when scheduling courses.
- Business Choice:
  - ACCTG 211
  - ECON 102 or ECON 104
  - SCM 301
  - BA 243
  - FIN 301
  - MKTG 301

- MGMT 301
- IB 303
- Advanced IT Selection 1:
  - IST 402
  - IST 413
  - IST 425
  - IST 431
  - IST 446
  - IST 454
  - IST 456
  - MIS 390
  - MIS 404

# **Greater Allegheny Campus**

# Business Applications Option: Information Technology, 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	Cradita Spring	Credits
	Credits Spring 3 CAS 100 (GWS) <sup>‡</sup>	
ENGL 15 or 30H (GWS) <sup>‡</sup> IST 110 or CYBER 100 <sup>*#</sup>		3
	3 MATH 110 or 140 (GQ) <sup>‡</sup> 3 IST 220 <sup>*#</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>		3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ACCTG 211 (Option 1)*	4
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/	3 General Education Course (GN or GA or GH)	3
GH)		
	16	16
GH)	16	16 Credits
GH) Third Year	· · ·	
GH) Third Year Fall	16 Credits Spring	Credits
GH) Third Year Fall IST 302 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup>	Credits 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection -	Credits 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course	Credits 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH)	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup>	<b>Credits</b> 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection -         Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16	Credits 3 3 3 3 3 3 3 3 15
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection - Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16         Credits Spring	Credits 3 3 3 3 3 15 Credits
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection -         Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16         Credits Spring         1 IST 440W*	Credits 3 3 3 3 3 15 Credits 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection - Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16         Credits Spring 1 IST 440W*         3 Option 4*	Credits 3 3 3 3 3 15 Credits 3 3 3 3 3 3 3 3 3 3 3 3 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

## **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.

- 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

## Custom Information Technology Option: Information Technology, 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 3 CAS 100A ENGL 15 or 30H 3 (GWS)<sup>‡</sup> (GWS)<sup>‡</sup> CYBER 100\*# 3 IST 230 3 3 IST 220<sup>\*#</sup> IST 140\*# or 3 CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131\*# SRA 111 (GS)\*\* 3 IST 242\* 3 MATH 110 or 4 General 3 140 (GQ)<sup>‡</sup> Education Course (GN or GA or GH) 16 15 Second Year **Credits Spring** Credits Fall IST 210<sup>\*#</sup> 3 IST 256\* 3 General 3 SRA 221 3 Education Course (GN or GA or GH) or Elective STAT 200<sup>‡</sup> (GQ) 4 Business 4 or SCM 200<sup>‡</sup> Selection (GQ) or DS 200\* ECON 102/ 3 ENGL 202C or 3 202D (GWS)<sup>‡</sup> ECON 104 or **PSYCH 100/** SOC 5 or PLSC 1/PLSC 14 $(GS)^{\dagger}$ Elective 3 General 3 Education or General Education Course (GN or Course (GN/GA/ GA or GH) GH) 16 16 Third Year **Credits Summer** Fall **Credits Spring** Credits 3 IST 495 3 IST 260W General 1 Education Course (GN or GA or GH) IST 302 3 Option 2 3 Networking 3 Advanced IT 3 Selection: IST Selection

226 or IST 454

	12	14	
	Elective	2	
Elective	3 General Education Course (GN or GA or GH)	3	
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3	
Advanced IT Selection 2 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
IST 331	3 ETI 461 <sup>*</sup>	3	
Fall	<b>Credits Spring</b>	Credits	
Fourth Year	15	15	
General Education Course (GN or GA or GH)	GA of GH) 3 General Education Course (GHW) <sup>*</sup> 15	3	1
Option 1 <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3	

## **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

### **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.

- Supporting Courses and Related Areas: Require a Grade of C or Better
   Select 12 credits, with at least 3 credits at the 400 level, in consultation with an adviser that follow a coherent theme in information technology.
  - Select 6 credits at the 300 or 400 level in Advanced IT courses from College-approved list.

# **Hazleton Campus**

# Business Applications Option: Information Technology, B.S. at Hazleton 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) $^\ddagger$	3 CAS 100A (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 CYBER 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ACCTG 211 (Option 1) <sup>*</sup>	4
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
Third Year	16	16
Third Year Fall		16 Credits
	16 Credits Spring 3 IST 260W <sup>*</sup>	
Fall	Credits Spring	Credits
Fall ETI 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	Credits 3
<b>Fall</b> ETI 302 <sup>*</sup> IST 331 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection -	Credits 3 3
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course	Credits 3 3 3
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH)	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course	<b>Credits</b> 3 3 3 3
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 16	Credits 3 3 3 3 3 3 3 3 15
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring	<b>Credits</b> 3 3 3 3 3 3 3
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W <sup>*</sup>	Credits 3 3 3 3 3 3 3 5 Credits
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring	Credits 3 3 3 3 3 3 3 5 5 Credits 3
Fall ETI 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W <sup>*</sup> 3 Option 4 <sup>*</sup>	Credits 3 3 3 3 3 15 Credits 3 3 3 3 3 3 3 3 3 3 3 3 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

## 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.

- 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
  - CYBER 451
  - CYBER 454
  - IST 226
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: HCDD 311, HCDD 361, HCDD 411, HCDD 412, IST 261, 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, CYBER 451, CYBER 454, CYBER 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, CYBER 456

# Custom Information Technology Option: Information Technology, B.S. at Hazleton 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

Flist fedi		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 CYBER 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection <sup>*</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	CreditsSpring	Credits
ETI 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
Option 1 <sup>*</sup>	3 Networking Selection*	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 1*	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
Option 3 <sup>*</sup>	3 Advanced IT Selection $2^*$	3
		2
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
		3

- \* 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.

- 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
  - CYBER 451
  - CYBER 454
  - IST 226
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: HCDD 311, HCDD 361, HCDD 411, HCDD 412, IST 261, 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, CYBER 451, CYBER 454, CYBER 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, CYBER 456

# Lehigh Valley Campus

# Application Development Option: Information Technology, 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

ENGL 15 or 30H (GWS) <sup>‡</sup> 3 CAS 100A (GWS) <sup>‡</sup> 3         IST 110 or CYBER 100 <sup>*#</sup> 3 MATH 110 or 140 (GQ) <sup>‡</sup> 4         IST 140 <sup>*#</sup> 3 IST 220 <sup>*#</sup> 3         General Education Course/ First-Year Seminar Course       3 General Education Course (GN or GA or GH)       3         Fall       Credits Spring       Credits (GN or GA or GH)       Credits 3         Str 210 <sup>*#</sup> 3 IST 256 <sup>*</sup> 3         IST 210 <sup>*#</sup> 3 IST 256 <sup>*</sup> 3         IST 230 <sup>*</sup> 3 SRA 221 <sup>*</sup> 3         STAT 200 (GQ) <sup>‡</sup> 4 Business Selection <sup>*</sup> 3         ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup> 3 ENGL 202C or 202D (GWS) <sup>‡</sup> 3         Elective or General Education Course (GN/GA/ GH)       3 General Education Course (GN or GA or GH)       3       ST 260W <sup>*</sup> 3         IST 302 <sup>*</sup> 3 IST 260W <sup>*</sup> 3       IST 261 (Option 2) <sup>*</sup> 3       3         IST 495 <sup>*1</sup> 1 Networking Selection <sup>*</sup> 3       3       3       3       3       3         General Education Course (GN or GA or GH)       3 General Education Course (GN or GA or GH)       3       3       3       3         General Education Course (GN or GA or GH)       3       3       3 <td< th=""><th>Fall</th><th>Credits Spring</th><th>Credits</th></td<>	Fall	Credits Spring	Credits
IST 110 or CYBER 100*#       3 MATH 110 or 140 (GQ) <sup>‡</sup> 4         IST 140*#       3 IST 220*#       3         General Education Course/ First-Year Seminar Course       3 General Education Course (GN or GA or GH)       3         Fall       Credits Spring       Credits         ST 230*       3 SRA 221*       3         STAT 200 (GQ) <sup>‡</sup> 4 Business Selection*       3         SCON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>‡</sup> 3 General Education Course (GN or GA or GH)       3         Elective or General Education Course (GN/GA/ GH)       3 General Education Course (GN or GA or GH)       3       ST 230*         IST 310*       3 IST 261 (Option 2)*       3       3         IST 310       1 ST 261 (Option 2)*       3       3         IST 311 (Option 1)*       3 IST 261 (Option 2)*       3       3         IST 311 (Option 1)*       3 IST 261 (Option 2)*       3       3         IST 313*       3 IST 411 (Option 3)*       3       3       3         General Education Course (GN or GA or GH)       3 General Education Course (GN or GA or GH)       3       3         IST 311 (Option 1)*       3 IST 261 (Option 2)*       3       3       3         IST 495*1       1 Networking Selection*       3       3       <	· · · · ·		
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Isolate Canada Control         Isolate Control         Isolate Control         Isolate Control         Isolate Control         Isolate Control         Isolat Control         Isolate Contro		3 General Education Course	3
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Third Year       Credits Spring       Credits         Fall       Credits Spring       Credits         IST 302*       3 IST 260W*       3         IST 311 (Option 1)*       3 IST 261 (Option 2)*       3         IST 331*       3 IST 411 (Option 3)*       3         IST 495*1       1 Networking Selection*       3         General Education Course (GN or GA or GH)       3 General Education Course (GN or GA or GH)       3         General Education Course (GN or GA or GH)       3       3         Fall       Credits Spring       Credits         IST 495*       1 IST 440W*       3         IST 495*       1 IST 440W*       3         IST 495*       3 IST 413 (Option 4)*       3         General Education Course (GN or GA or GH)       3 General Education 2*       3         IST 495*       1 IST 440W*       3       3         IST 495*       3 IST 413 (Option 4)*       3       3         General Education Course (GN or GA or GH)       3 General Education Course (GN or GA or GH)       3         Elective       3 Elective       3       3		(GN or GA or GH)	
Fall         Credits Spring         Credits           IST 302*         3 IST 260W*         3           IST 311 (Option 1)*         3 IST 261 (Option 2)*         3           IST 331*         3 IST 261 (Option 3)*         3           IST 495*1         1 Networking Selection*         3           General Education Course (GN or GA or GH)         3 General Education Course (GN or GA or GH)         3           General Education Course (GN or GA or GH)         3         6           Fall         Credits Spring         Credits           IST 495*         1 IST 440W*         3           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 (GN or GA or GH)         3 General Education Course         3           ETI 461*         3 IST 413 (Option 4)*         3           Advanced IT Selection 1*         3 Advanced IT Selection 2*         3           General Education Course (GN or GA or GH)         3 General Education Course         3           Elective         3 Elective         2		16	15
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General Education Course (GHW)3 General Education Course (GN or GA or GH)3Elective3 Elective2	ETI 461 <sup>*</sup>	3 IST 413 (Option 4) <sup>*</sup>	3
(GHW)(GN or GA or GH)Elective3 Elective2	Advanced IT Selection $1^*$	3 Advanced IT Selection $2^*$	3
			3
13 14	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
- <sup>1</sup> One internship (IST 495) course is needed for graduation, but others are encouraged and can be taken at different semesters.

## 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.

- 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

26 Information Technology, B.S. (University College)

# Business Applications Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
General Education Course/ First-Year Seminar Course	3 General Education Course (GN or GA or GH)	3
	15	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup>	4 ACCTG 211 (Option 1)*	4
ECON 102 or 104 $(GS)^{\dagger}$	3 ENGL 202C or 202D (GWS) $\ddagger$	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
· · ·	16	16
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
IST 495 <sup>*1</sup>	1 Advanced IT Selection - Business Option <sup>*</sup>	3
Business Selection <sup>*</sup>	4 Networking Selection $^{*}$	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH)	3	
	17	15
Fourth Year		
Fall	CreditsSpring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
Option 3 <sup>*</sup>	3 Advanced IT Selection $^*$	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
Elective	3 Elective	1
	13	13
Total Credits 121		

Total Credits 121

\* Course requires a grade of C or better for the major

# Course is an Entrance to Major requirement

- + Course satisfies General Education and degree requirement
- <sup>1</sup> One internship (IST 495) course is needed for graduation, but others are encouraged and can be taken at different semesters.

### **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.

- 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

<sup>‡</sup> Course requires a grade of C or better for General Education

# Custom Information Technology Option: Information Technology, 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

	Que dite Cauin a	Owedite
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
General Education Course/ First-Year Seminar	3 General Education Course (GN or GA or GH)	3
	15	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 (GQ) <sup>‡</sup>	4 Business Selection <sup>*</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General	<b>3</b> General Education Course	3
Education Course (GN/GA/ GH)	(GN or GA or GH)	
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
IST 495 <sup>*1</sup>	1 Networking Selection <sup>*</sup>	3
Option 1 <sup>*</sup>	3 Advanced IT Selection $1^*$	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH)	3	
	16	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
		0
Option 3 <sup>*</sup>	3 Advanced IT Selection $2^*$	3
Option 3 <sup>°</sup> General Education Course (GHW)	3 Advanced IT Selection 2 <sup>*</sup> 3 General Education Course (GN or GA or GH)	3
General Education Course	3 General Education Course	
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

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
- <sup>1</sup> One internship (IST 495) course is needed for graduation, but others are encouraged and can be taken at different semesters.

## 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.

- 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

# CyberSecurity Option: Information Technology, B.S. at Lehigh Valley Campus

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### First Year

First rear		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A (GWS) <sup>‡</sup>	3
CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
General Education Course/ First-Year Seminar (GN or GA or GH) or Elective	3 General Education Course (GN or GA or GH)	3
	15	16
Second Year		
Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 (GQ) <sup>‡</sup>	4 CYBER 262 (Option 1)*	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
IST 495 <sup>*1</sup>	1 Networking Selection <sup>*</sup>	3
Business Selection <sup>*</sup>	3 Advanced IT Selection $1^*$	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH)	3	
	16	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
Option 3 <sup>*</sup>	3 Advanced IT Selection $2^{*}$	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
Elective	3 Elective	2
	13	14
Total Credits 120		

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

One internships (IST 495) course is needed for graduation, but others are encouraged and can be taken at different semesters.

## **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.

- 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

# Security and Risk Analysis Option: Information Technology, B.S. at Lehigh Valley Campus

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## First Year

Turn         Oreclis Spring         Oreclis Spring         Oreclis Spring         Oreclis Spring         Oreclis Spring         Status           ENGL 15 or 30H (GWS) <sup>‡</sup> 3 CAS 100A (GWS) <sup>‡</sup> 3         3         3         3           IST 110 or CYBER 100 <sup>*#</sup> 3 MATH 110 or 140 (GQ) <sup>‡</sup> 4         3         3         3           SRA 111 (GS) <sup>*†</sup> 3 IST 220 <sup>*#</sup> 3         3	Fall	Credits Spring	Credits
IST 110 or CYBER 100*#       3 MATH 110 or 140 (GQ) <sup>‡</sup> 4         IST 140*#       3 IST 220*#       3         SRA 111 (GS)**       3 IST 242*       3         General Education Course/ First-Year Seminar       3 General Education Course (GN or GA or GH)       3         Fall       Credits Spring       Credits         ST 210*#       3 IST 256*       3         IST 230*       3 SRA 221*       3         STAT 200 (GQ)*       4 Business Selection*       3         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 General Education Course (GN or GA or GH)       3         IST 331*       3 SRA 231 (Option 2)*       3         IST 392*       3 IST 260W*       3         IST 391*       3 Advanced IT Selection *       3         IST 495*1       1 Networking Selection*       3         General Education Course (GN or GA or GH)       3       General Education Course (GN or GA or GH)       3         General Education Course (GN or GA or GH)       3       General Education Course (GN or GA or GH)       3         General Education Course (GN or GA or GH)       3       General Education Course (GN or GA or GH)       3         Gen			
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First-Year Seminar         (GN or GA or GH)           15         16           Second Year         Fall         Credits Spring         Credits           IST 210 <sup>*#</sup> 3 IST 256 <sup>*</sup> 3           IST 230 <sup>*</sup> 3 SRA 221 <sup>*</sup> 3           STAT 200 (GQ) <sup>‡</sup> 4 Business Selection <sup>*</sup> 3           ECON 102/ECON 104 or         3 ENGL 202C or 202D (GWS) <sup>‡</sup> 3           PSYCH 100/SOC 5 or PLSC         3         Strat (GN or GA or GH)           1/PLSC 14 (GS) <sup>†</sup> 3         General Education Course         3           Education Course (GN/GA/ GH)         16         15         Third Year           Fall         Credits Spring         Credits           IST 302 <sup>*</sup> 3 IST 260W <sup>*</sup> 3           IST 302 <sup>*</sup> 3 IST 260W <sup>*</sup> 3           IST 495 <sup>*1</sup> 1 Networking Selection <sup>*</sup> 3           IST 495 <sup>*1</sup> 1 Networking Selection 1 <sup>*</sup> 3           General Education Course (GN or GA or GH)         3         General Education Course (GN or GA or GH)         3           (GN or GA or GH)         16         15         5         5           General Education Course (GN or GA or GH)         3         3         3			
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Education Course (GN/GA/ GH)         (GN or GA or GH)           16         15           Third Year         Fall         Credits Spring         Credits           IST 302*         3 IST 260W*         3           IST 331*         3 SRA 231 (Option 2)*         3           IST 495*1         1 Networking Selection*         3           SRA 211 (Option 1)*         3 Advanced IT Selection 1*         3           General Education Course         3 General Education Course         3           (GN or GA or GH)         (GN or GA or GH)         6           General Education Course         3         6           (GN or GA or GH)         1 IST 440W*         3           IST 495*         1 IST 440W*         3           ETI 461*         3 Option 4*         3           Option 3*         3 Advanced IT Selection 2*         3           General Education Course         3 General Education Course         3           IST 495*         1 IST 440W*         3           IST 495*         3 Advanced IT Selection 2*         3           General Education Course         3 General Education Course         3           IST 495*         3 IST 440W*         3         3           IST 495*         3 Adva	PSYCH 100/SOC 5 or PLSC	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
GH)         16         15           Third Year         Fall         Credits Spring         Credits           IST 302*         3 IST 260W*         3         3           IST 331*         3 SRA 231 (Option 2)*         3         3           IST 495*1         1 Networking Selection*         3         3           SRA 211 (Option 1)*         3 Advanced IT Selection 1*         3         3           General Education Course         3 General Education Course         3         6           (GN or GA or GH)         (GN or GA or GH)         6         15           Fourth Year         7         1         1         1           Fall         Credits Spring         Credits         1           IST 495*         1         1ST 440W*         3           ET1 461*         3 Option 4*         3         3         3           Option 3*         3 Advanced IT Selection 2*         3         3         3           General Education Course         3 General Education Course         3         3         3           IST 495*         1         1ST 440W*         3         3         3           General Education Course         3 General Education Course         3         3	Elective or General	<b>3</b> General Education Course	3
16         15           Third Year         Fall         Credits Spring         Credits           IST 302*         3 IST 260W*         3           IST 331*         3 SRA 231 (Option 2)*         3           IST 495*1         1 Networking Selection*         3           SRA 211 (Option 1)*         3 Advanced IT Selection 1*         3           General Education Course         3 General Education Course         3           (GN or GA or GH)         (GN or GA or GH)         6           General Education Course         3         6           (GN or GA or GH)         16         15           Fourth Year         7         7           Fall         Credits Spring         Credits           IST 495*         1 IST 440W*         3           ETI 461*         3 Option 4*         3           Option 3*         3 Advanced IT Selection 2*         3           General Education Course         3 General Education Course         3           GHW)         (GN or GA or GH)         3	<b>x</b>	(GN or GA or GH)	
Fall         Credits Spring         Credits           IST 302*         3 IST 260W*         3           IST 331*         3 SRA 231 (Option 2)*         3           IST 495*1         1 Networking Selection*         3           SRA 211 (Option 1)*         3 Advanced IT Selection 1*         3           General Education Course (GN or GA or GH)         3 General Education Course (GN or GA or GH)         3           General Education Course (GN or GA or GH)         3         5           Fourth Year         16         15           Fall         Credits Spring         Credits           IST 495*         1 IST 440W*         3           ETI 461*         3 Option 4*         3           Option 3*         3 Advanced IT Selection 2*         3           General Education Course (GN or GA or GH)         3 General Education Course         3           IST 495*         1 IST 440W*         3         3           IST 495*         3 Advanced IT Selection 2*         3         3           General Education Course (GN or GA or GH)         3 General Education Course         3           IST 495*         3 Seneral Education Course         3         3           IST 495*         3 Elective         3         3	,	16	15
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IST 331 <sup>*</sup> 3 SRA 231 (Option 2) <sup>*</sup> 3 IST 495 <sup>*1</sup> 1 Networking Selection <sup>*</sup> 3 SRA 211 (Option 1) <sup>*</sup> 3 Advanced IT Selection 1 <sup>*</sup> 3 General Education Course 3 General Education Course 3 (GN or GA or GH) (GN or GA or GH) General Education Course 3 (GN or GA or GH) 16 15 Fourth Year Fall Credits Spring Credits IST 495 <sup>*</sup> 1 IST 440W <sup>*</sup> 3 ETI 461 <sup>*</sup> 3 Option 4 <sup>*</sup> 3 Option 3 <sup>*</sup> 3 Advanced IT Selection 2 <sup>*</sup> 3 General Education Course 3 Gener	Fall	Credits Spring	Credits
IST 495*11 Networking Selection*3SRA 211 (Option 1)*3 Advanced IT Selection 1*3General Education Course (GN or GA or GH)3 General Education Course (GN or GA or GH)3General Education Course (GN or GA or GH)3General Education Course (GN or GA or GH)3Tedits SpringCredits SpringCredits IST 495*I IST 440W*3ETI 461*3 Option 4*Option 3*3 Advanced IT Selection 2*General Education Course (GN or GA or GH)3Elective3 Elective23	IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 495*11 Networking Selection*3SRA 211 (Option 1)*3 Advanced IT Selection 1*3General Education Course (GN or GA or GH)3 General Education Course (GN or GA or GH)3General Education Course (GN or GA or GH)3 <b>16Fourth YearFallCredits SpringCredits</b> IST 495*1 IST 440W*3ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course (GN or GA or GH)3 Entrate 1Elective3 Elective2	IST 331 <sup>*</sup>	3 SRA 231 (Option 2) <sup>*</sup>	3
General Education Course (GN or GA or GH)3 General Education Course (GN or GA or GH)3General Education Course (GN or GA or GH)3General Education Course (GN or GA or GH)31615Fourth YearFallCredits SpringCreditsIST 495*1 IST 440W*3ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course (GN or GA or GH)3 Elective2	IST 495 <sup>*1</sup>	1 Networking Selection <sup>*</sup>	3
(GN or GA or GH)(GN or GA or GH)General Education Course (GN or GA or GH)31615Fourth YearCredits SpringCreditsIST 495*1 IST 440W*3ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course (GHW)3 Elective3Elective3 Elective2	SRA 211 (Option 1)*	3 Advanced IT Selection $1^*$	3
General Education Course (GN or GA or GH)31615Fourth YearFallCredits SpringCreditsFallCredits SpringCreditsIST 495*1 IST 440W*3ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course (GN or GA or GH)3 Elective2			3
InstructionInstructionInstructionFourth YearFallCredits SpringCreditsIST 495*1IST 440W*3IST 495*1IST 440W*3ETI 461*3Option 4*3Option 3*3Advanced IT Selection 2*3General Education Course3General Education Course3(GHW)(GN or GA or GH)Elective2			
Fourth YearFallCredits SpringCreditsIST 495*1 IST 440W*3IST 495*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course3 General Education Course3(GHW)(GN or GA or GH)2Elective3 Elective2	(GN or GA or GH)		
FallCredits SpringCreditsIST 495*1 IST 440W*3ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course (GHW)3 General Education Course (GN or GA or GH)3Elective3 Elective2	E	16	15
IST 495*1 IST 440W*3ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course (GHW)3 General Education Course (GN or GA or GH)3Elective3 Elective2			<b>a</b>
ETI 461*3 Option 4*3Option 3*3 Advanced IT Selection 2*3General Education Course3 General Education Course3(GHW)(GN or GA or GH)2Elective3 Elective2		· · · ·	
Option 3*3 Advanced IT Selection 2*3General Education Course (GHW)3 General Education Course (GN or GA or GH)3Elective3 Elective2			
General Education Course (GHW)3 General Education Course (GN or GA or GH)3Elective3 Elective2			
(GHW)(GN or GA or GH)Elective3 Elective2			
			3
13 14	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
- <sup>1</sup> One internships (IST 495) course is needed for graduation, but others are encouraged and can be taken at different semesters.

## 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.

- 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

# **Mont Alto Campus**

# Business Applications Option: Information Technology, B.S. at Mont Alto 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) <sup>‡</sup>	3 CAS 100A (GWS) <sup>*‡†</sup>	3	
CYBER 100 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3	
IST 140 <sup>*#</sup>	3 IST 242 <sup>*</sup>	3	
General Education Course or Elective	3 SRA 111 (GS) <sup>*†</sup>	3	
IST 111S (First- Year Seminar)	1 IST 210 <sup>*#</sup>	3	
MATH 110 or 140 (GQ) <sup>‡</sup>	4		
	17	15	
Second Year			
Fall IST 230 <sup>*</sup>	Credits Spring	Credits	
STAT 200 (GQ) <sup>‡</sup>	3 SRA 221 <sup>°</sup> 4 ACCTG 211	3	
	(Option 1) <sup>*</sup>		
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
Networking Selection (IST 226) <sup>*</sup>	3 Elective <sup>1</sup>	3	
	16	16	
Third Year			
Fall	Credits Spring	Credits Summer	Credits
IST 256 <sup>*</sup> IST 260W <sup>*</sup>	3 IST 331 <sup>*</sup>	3 IST 495 <sup>*</sup>	1
IST 260W	3 Option 2 <sup>*</sup> 3 Advanced	3	
151 302	IT Selection - Business Option <sup>*</sup>	3	
Business Selection <sup>*</sup>	4 General Education Course (GN or GA or GH) <sup>*</sup>	3	

General	3 General	3	
Education	Education	0	
Course	Course (GN or		
	GA or GH)		
	16	15	1
Fourth Year			
Fall	<b>Credits Spring</b>	Credits	
ETI 461 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3	
Advanced IT Selection <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3	
General Education Course	3 General Education Course (GN or GA or GH)	3	
	Elective	1	
	12	13	
Tetel On dive 14	0.1		

## **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

<sup>1</sup> IST 250 is a recommended elective course

### 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.

- 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:
  - 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

## Custom Information Technology Option: Information Technology, B.S. at Mont Alto 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**

Credits
1

IST 260W <sup>*</sup>	3 IST 331 <sup>*</sup>	3	
	15	15	1
Fourth Year			
Fall	<b>Credits Spring</b>	Credits	
ETI 461 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3	
Advanced IT Selection 2 <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	Elective	2	
	12	14	
Tatal Overline 10	20		

### 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

<sup>1</sup> IST 250 is a recommended elective course

## **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.

- 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:
  - Custom Information Technology:
    - Select 12 credits, with at least three (3) credits at the 400 level, in consultation with an adviser that follow a coherent theme in information technology

# CyberSecurity Option: Information Technology, B.S. at Mont Alto 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 3 CAS 100A ENGL 15 or 30H 3 (GWS)\*<sup>‡†</sup> (GWS)<sup>‡</sup> 3 IST 220\*# CYBER 100\*# 3 IST 140<sup>\*#</sup> 3 IST 242 3 3 SRA 111\*1 3 General Education Course or Elective 1 IST 210<sup>\*#</sup> IST 111S (First-3 Year Seminar) MATH 110 or 4 140 (GQ)<sup>‡</sup> 17 15 Second Year Fall **Credits Spring** Credits IST 230<sup>\*</sup> 3 SRA 221 3 STAT 200 (GQ)<sup>‡</sup> 4 Option 1 3 (CYBER 262) ECON 102/ 3 ENGL 202C or 3 202D (GWS)<sup>‡</sup> ECON 104 or **PSYCH 100/** SOC 5 or PLSC 1/PLSC 14 $(GS)^{\dagger}$ 3 General General 3 Education Education Course (GN or Course (GN or GA or GH) GA or GH) 3 Elective<sup>1</sup> 3 Networking Selection (IST 226) 16 15 **Third Year** Fall **Credits Spring Credits Summer** Credits 3 Option 2 3 IST 495 IST 256 IST 302 3 Advanced IT 3 Selection 1 Business 3 General 3 Selection Education Course (GN or GA or GH) General 3 General 3 Education Education Course (GN or Course (GN or GA or GH) GA or GH)

IST 260W <sup>*</sup>	3 IST 331 <sup>*</sup>	3	
	15	15	1
Fourth Year			
Fall	<b>Credits Spring</b>	Credits	
ETI 461 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3	
Advanced IT Selection 2 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	Elective	2	
	12	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

IST 250 or IST 261 is a recommended elective course (discuss with adviser)

## **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

- · 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:
  - 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

## Networking Option: Information Technology, B.S. at Mont Alto 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) <sup>‡</sup>	3 CAS 100A (GWS) <sup>*‡†</sup>	3	
CYBER 100 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3	
IST 140 <sup>*#</sup>	3 IST 242 <sup>*</sup>	3	
General Education Course or Elective	3 SRA 111 (GS) <sup>*†</sup>	3	
IST 111S (First- Year Seminar)	1 IST 210 <sup>*#</sup>	3	
MATH 110 or 140 (GQ) <sup>‡</sup>	4		
	17	15	
Second Year			
Fall	Credits Spring	Credits	
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3	
STAT 200 (GQ) <sup>‡</sup>	4 Business Selection <sup>*</sup>	3	
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
Networking Selection (IST 226) <sup>*</sup>	3 Elective <sup>1</sup>	3	
	16	15	
Third Year		•	
Fall	Credits Spring	Credits Summer	Credits
IST 225 (Option 1) <sup>*</sup>	3 IST 227 (Option 2)*	3 IST 495 <sup>*</sup>	1
IST 256 <sup>*</sup>	3 IST 228 (Option 3) <sup>*</sup>	3	
IST 260W <sup>*</sup>	3 Advanced IT Selection 1 <sup>*</sup>	3	
IST 302 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3	

General	3 IST 331 <sup>*</sup>	3	
Education Course (GN or GA or GH)			
	15	15	1
Fourth Year			
Fall	Credits Spring	Credits	
ETI 461 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
Advanced IT Selection $2^*$	3 Option 4 <sup>*</sup>	3	
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	Elective	2	
	12	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

<sup>1</sup> IST 250 is a recommended elective course

#### **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.

- 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:
  - Networking:
    - 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

## **New Kensington Campus**

## Business Applications Option: Information Technology, B.S. at New Kensington 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		<b>a</b> 15	
Fall	Credits Spring	Credits	
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3	
CYBER 100 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3	
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 230 <sup>*</sup>	3	
MATH 110 or 140 (GQ) <sup>‡</sup>	4 IST 242 <sup>*</sup>	3	
SRA 111 (GS) <sup>*†</sup>	3 General Education Course (GN or GA or GH)	3	
	General Education Course (GN or GA or GH) or Elective	3	
	16	18	
Second Year			
Fall	<b>Credits Spring</b>	Credits	
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3	
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 SRA 221 <sup>*</sup>	3	
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ACCTG 211 (Option 1) <sup>*</sup>	4	
Elective or General Education Course (GN/GA/ GH)	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	16	16	
Third Year Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	<b>Credits Summer</b> 3 IST 495 <sup>*</sup>	Credits

	+		
Networking Selection (IST 226 or IST 454) <sup>*</sup>	3 Option 2 <sup>*</sup>	3	
Business Selection (ECON 102 or ECON 104 or MGMT 301 or MKTG 301) <sup>*</sup>	3 Advanced IT Selection 1 <sup>*</sup>	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	General Education Course (GHW)	3	
	12	15	1
Fourth Year			
Fall	<b>Credits Spring</b>	Credits	
IST 331	3 ETI 461 <sup>*</sup>	3	
Advanced IT Selection 2 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3	
Elective	3 Elective	3	
	Elective	2	
	12	14	
T. t. I.O	2		

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

#### 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.

- 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

## Custom Information Technology Option: Information Technology, B.S. at New Kensington 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 3 CAS 100 3 (GWS)<sup>‡</sup> (GWS)<sup>‡</sup> CYBER 100\*# 3 IST 230 3 3 IST 220\*# IST 140\*# or 3 CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131\*# SRA 111 (GS)\*\* 3 IST 242\* 3 MATH 110 or 4 General 3 140 (GQ)<sup>‡</sup> Education Course (GN or GA or GH) 16 15 Second Year **Credits Spring** Credits Fall IST 210<sup>\*#</sup> 3 IST 256\* 3 General 3 SRA 221 3 Education Course (GN or GA or GH) or Elective STAT 200<sup>‡</sup> (GQ) 4 Business 4 or SCM 200<sup>‡</sup> Selection (GQ) or DS 200\* ECON 102/ 3 ENGL 202C or 3 202D (GWS)<sup>‡</sup> ECON 104 or **PSYCH 100/** SOC 5 or PLSC 1/PLSC 14 $(GS)^{\dagger}$ Elective 3 General 3 Education or General Education Course (GN or Course (GN/GA/ GA or GH) GH) 16 16 Third Year **Credits Summer** Credits Fall **Credits Spring** 3 IST 495 3 IST 260W General 1 Education Course (GN or GA or GH) IST 302 3 Option 2 3 Networking 3 Advanced IT 3 Selection: IST Selection

226 or IST 454

	12	14	
	Elective	2	
Elective	3 General Education Course (GN or GA or GH)	3	
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3	
Advanced IT Selection 2 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
IST 331	3 ETI 461 <sup>*</sup>	3	
Fall	<b>Credits Spring</b>	Credits	
Fourth Year	15	15	I
General Education Course (GN or GA or GH)	3 General Education Course (GHW) <sup>*</sup>	3	1
Option 1 <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3	

#### **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

#### **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.

- 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

## Cybersecurity Option: Information Technology, B.S. at New Kensington 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

Networking

Business

Selection

Selection (IST

226 or IST 454)

3 IST 302

3 Advanced IT

Selection 1

3

3

Flist real			
Fall	<b>Credits Spring</b>	Credits	
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 IST 220 <sup>*#</sup>	3	
CYBER 100 <sup>*#</sup>	3 IST 230 <sup>*</sup>	3	
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 242 <sup>*</sup>	3	
MATH 110 or 140 (GQ) <sup>‡</sup>	4 General Education Course (GN or GA or GH)	3	
SRA 111 (GS) <sup>*†</sup>	3 General Education Course (GN or GA or GH) or Elective	3	
	16	15	
Second Year			
Fall	<b>Credits Spring</b>	Credits	
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3	
CAS 100 (GWS) <sup>‡</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3	
ECON 102/ ECON 104 or PSYCH 100/ SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 SRA 221	3	
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 General Education Course (GN or GA or GH)	3	
Elective or General Education Course (GN/GA/ GH)	3		
	16	12	
<b>Third Year</b> <b>Fall</b> IST 331 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	<b>Credits Summer</b> 3 IST 495 <sup>*</sup>	Credits 1

Option 1 <sup>*</sup>	3 Option 2 <sup>*</sup>	3	
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3	
	General Education Course (GN or GA or GH) <sup>*</sup>	3	
	15	18	1
Fourth Year			
Fall	Credits Spring	Credits	
0	*		
General Education Course (GHW)	3 ETI 461 <sup>*</sup>	3	
Education	3 ETI 461 3 IST 440W <sup>*</sup>	3 3	
Education Course (GHW)		-	
Education Course (GHW) Option 3 <sup>*</sup> Advanced IT	3 IST 440W <sup>*</sup> 3 IST 452 (Option	3	
Education Course (GHW) Option 3 <sup>*</sup> Advanced IT Selection 2 <sup>*</sup>	3 IST 440W <sup>*</sup> 3 IST 452 (Option 4) <sup>*</sup> 3 General Education Course (GN or	3	

### **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

#### 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.

- 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

## Schuylkill Campus

# Application Development Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100*#	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 230 <sup>*</sup>	3 IST 210 <sup>*#</sup>	3
IST 261 (Option 2)*	3 IST 256 <sup>*</sup>	3
SRA 221 <sup>*</sup>	3 Business Selection	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year	16	15
Third Year Fall	16 Credits Spring	15 Credits
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup>	Credits Spring	Credits
Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	Credits 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup>	Credits 3 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course	Credits 3 3 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/	<b>Credits</b> 3 3 3 3 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/ GH)	<b>Credits</b> 3 3 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/ GH)	<b>Credits</b> 3 3 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/ GH) 15 Credits Spring 1 IST 440W <sup>*</sup>	Credits 3 3 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/ GH) 15 Credits Spring	Credits 3 3 3 3 3 3 3 3 5 5 Credits
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/ GH) 15 Credits Spring 1 IST 440W <sup>*</sup>	Credits 3 3 3 3 3 3 3 3 5 5 5 5 6 7 5 6 7 5 7 5 7 5 7 7 7 7 7 7
Fall IST 302 <sup>*</sup> IST 311 (Option 1) <sup>*</sup> IST 331 <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 IST 411 (Option 3) <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 Elective or General Education Course (GN/GA/ GH) 15 Credits Spring 1 IST 440W <sup>*</sup> 3 IST 413 (Option 4) <sup>*</sup>	Credits 3 3 3 3 3 3 3 5 <b>Credits</b> 3 3 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

#### **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.

- 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:

## Business Applications Option: Information Technology, 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
ENGL 15 or 30H (GWS) $^{\ddagger}$	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 230 <sup>*</sup>	3 IST 210 <sup>*#</sup>	3
SRA 221 <sup>*</sup>	3 IST 256 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ACCTG 211 (Option 1)*	4
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/	3 General Education Course (GN or GA or GH)	3
GH)		
GH)	16	16
GH) Third Year	16	
GH) Third Year Fall	16 Credits Spring	Credits
GH) Third Year Fall IST 302 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup>	Credits 3
GH) Third Year Fall	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection -	Credits
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup>	Credits 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course	Credits 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH)	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup>	<b>Credits</b> 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH)	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 Networking Selection <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection - Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16	Credits 3 3 3 3 3 3 3 15
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection - Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16         Credits Spring	Credits 3 3 3 3 3 3 3 3 5 Credits
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection - Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16         Credits Spring 1 IST 440W*	Credits 3 3 3 3 3 3 3 5 <b>Credits</b> 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	16         Credits Spring         3 IST 260W*         3 Option 2*         4 Advanced IT Selection - Business Option*         3 Networking Selection*         3 General Education Course (GN or GA or GH)         16         Credits Spring 1 IST 440W*         3 Option 4*	Credits 3 3 3 3 3 15 Credits 3 3 3 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

#### **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.

- 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:

### Custom Information Technology Option: Information Technology, 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           ENGL 15 or 30H (GWS) <sup>‡</sup> IST 110 or CYBER 100 <sup>*#</sup> IST 140*# or CMPSC 121	<b>Credits Spring</b> 3 CAS 100 (GWS) <sup>‡</sup> 3 MATH 110 or 140 (GQ) <sup>‡</sup>	Credits 3
IST 110 or CYBER 100 <sup>*#</sup> IST 140*# or CMPSC 121		3
IST 140*# or CMPSC 121	$2 MATH 110 \text{ or } 140 (CO)^{\ddagger}$	
		4
(GQ) $^{\#\ddagger}$ or CMPSC 131 $^{*\#}$	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall IST 230 <sup>*</sup>	Credits Spring 3 IST 210 <sup>*#</sup>	Credits 3
SRA 221 <sup>*</sup>	3 IST 256 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection*	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
Option 1 <sup>*</sup>	3 Networking Selection*	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 1 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
Option 3 <sup>*</sup>	3 Advanced IT Selection 2 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
		0
Elective	3 Elective	2

- \* 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.

- 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

## CyberSecurity Option: Information Technology, 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

Flist fedi		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall IST 230 <sup>*</sup>	Credits Spring 3 IST 210 <sup>*#</sup>	Credits 3
CYBER 262 (Option 1)*	3 IST 256 <sup>*</sup>	3
SBA 221 <sup>*</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 General Education Course (GN or GA or GH)	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 Elective or General Education Course (GN/GA/ GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
Business Selection <sup>*</sup>	3 Networking Selection*	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 1 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
Fall		
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	
IST 495 <sup>*</sup> ETI 461 <sup>*</sup>		3 3 3
IST 495 <sup>*</sup> ETI 461 <sup>*</sup> Option 3 <sup>*</sup> General Education Course	1 IST 440W <sup>*</sup> 3 Option 4 <sup>*</sup> 3 Advanced IT Selection 2 <sup>*</sup> 3 General Education Course	3
IST 495 <sup>*</sup> ETI 461 <sup>*</sup> Option 3 <sup>*</sup>	1 IST 440W <sup>*</sup> 3 Option 4 <sup>*</sup> 3 Advanced IT Selection 2 <sup>*</sup>	3 3

**Total Credits 120** 

# 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:

- 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

\* Course requires a grade of C or better for the major

‡ Course requires a grade of C or better for General Education

## Security and Risk Analysis Option: Information Technology, 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		
i un	Credits Spring	Credits
ENGL 15 or 30H (GWS) $^{\ddagger}$	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) $\ddagger$	4
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
IST 230 <sup>*</sup>	3 IST 210 <sup>*#</sup>	3
SRA 221 <sup>*</sup>	3 IST 256 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 SRA 211 (Option 1) $^{*}$	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 SRA 231 (Option 2) <sup>*</sup>	3
Business Selection <sup>*</sup>	3 Networking Selection $^{*}$	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection $1^*$	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
4	3 Advanced IT Selection 2*	3
Option 3 <sup>*</sup>		
Option 3 <sup>®</sup> General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
General Education Course		3

- \* 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.

- 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

## **Scranton Campus**

## Application Development Option: Information Technology, B.S. at Scranton 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

i list real		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 IST 261 (Option 1) <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 SRA 221 <sup>*</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year		
Fall	CreditsSpring	Credits
IST 331 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 311 (Option 2)*	3 IST 411 (Option 3)*	3
Networking Selection*	3 Business Selection $^{*}$	3
Advanced IT Selection 1*	3 General Education Course (GHW)	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
Fall IST 302 <sup>*</sup>	3 IST 440W <sup>*</sup>	Credits 3
IST 302 <sup>*</sup> IST 412 (Option 4) <sup>*</sup>		
IST 302 <sup>*</sup>	3 IST 440W <sup>*</sup>	3
IST 302 <sup>*</sup> IST 412 (Option 4) <sup>*</sup>	3 IST 440W <sup>*</sup> 3 ETI 461 <sup>*</sup> 1 General Education Course	3 3

General Education Course	3 Elective	2
(GN or GA or GH)		
	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

#### 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.

- 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:

## Business Applications Option: Information Technology, B.S. at Scranton 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) $^\ddagger$	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 ACCTG 211 (Option 1) $^{*}$	4
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General	3 General Education Course	3
Education Course (GN/GA/ GH)	(GN or GA or GH)	
	16	10
	10	16
Third Year	10	16
Third Year Fall	Credits Spring	Credits
Fall	CreditsSpring	Credits
Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	Credits 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection -	Credits 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course	Credits 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course	<b>Credits</b> 3 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
Fall         IST 302*         IST 331*         Business Selection*         Networking Selection*         General Education Course (GN or GA or GH)	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3 3 3 3
Fall         IST 302*         IST 331*         Business Selection*         Networking Selection*         General Education Course (GN or GA or GH)         Fourth Year	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course (GN or GA or GH)	Credits 3 3 3 3 3 3 3 3 15
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring	Credits 3 3 3 3 3 3 3 5 75 Credits 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W <sup>*</sup>	Credits 3 3 3 3 3 3 3 3 5 Credits
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Business Selection <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> Option 3 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 4 Advanced IT Selection - Business Option <sup>*</sup> 3 General Education Course (GN or GA or GH) <sup>*</sup> 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W <sup>*</sup> 3 Option 4 <sup>*</sup>	Credits 3 3 3 3 3 3 3 5 Credits 3 3 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

#### 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.

- 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:

## Custom Information Technology Option: Information Technology, B.S. at Scranton 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) $^\ddagger$	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection <sup>*</sup>	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) $\ddagger$	3
Elective or General Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	16	15
Third Year	16	15
Third Year Fall	16 Credits Spring	15 Credits
Fall	CreditsSpring	Credits
Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup>	Credits 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup>	<b>Credits Spring</b> 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course	Credits 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course	Credits 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH)	<b>Credits</b> 3 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 3 Elective	<b>Credits</b> 3 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH)	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 3 Elective	<b>Credits</b> 3 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 3 Elective 15	Credits 3 3 3 3 3 3 3 3 15
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 3 Elective 15 Credits Spring	Credits 3 3 3 3 3 3 3 3 5 75 Credits
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 3 Elective 15 Credits Spring 1 IST 440W <sup>*</sup>	Credits 3 3 3 3 3 3 3 3 5 75 Credits 3
Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 1 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> Option 3 <sup>*</sup>	Credits Spring 3 IST 260W <sup>*</sup> 3 Option 2 <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GN or GA or GH) 3 Elective 15 Credits Spring 1 IST 440W <sup>*</sup> 3 ETI 461 <sup>*</sup>	Credits 3 3 3 3 3 3 3 5 Credits 3 3 3

General Education Course	3 Elective	2
(GHW)		
	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

#### 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.

- 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:

## CyberSecurity Option: Information Technology, B.S. at Scranton 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

First Year		
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) $^\ddagger$	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140*# or CMPSC 121 (GQ) <sup>#‡</sup> or CMPSC 131 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH) or Elective	3	
	16	16
Second Year		
Fall	Credits Spring	Credits
CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 CYBER 262 (Option 1)*	3
ECON 102/ECON 104 or PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
Elective or General	3 General Education Course	3
Education Course (GN/GA/ GH)	(GN or GA or GH)	
	(GN or GA or GH) 	15
		15
GH)		15 Credits
GH) Third Year	16	
GH) Third Year Fall	16 Credits Spring	Credits
GH) Third Year Fall IST 302 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup>	Credits 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 3 <sup>*</sup>	Credits 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 <sup>*</sup>	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 3 <sup>*</sup> 3 Business Selection <sup>*</sup> 3 General Education Course	Credits 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 3 <sup>*</sup> 3 Business Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course	Credits 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course	16 Credits Spring 3 IST 260W <sup>*</sup> 3 Option 3 <sup>*</sup> 3 Business Selection <sup>*</sup> 3 General Education Course (GN or GA or GH) 3 General Education Course (GHW) 15	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302 <sup>*</sup> IST 331 <sup>*</sup> Option 2 <sup>*</sup> Networking Selection <sup>*</sup> General Education Course (GN or GA or GH) Fourth Year Fall	16         Credits Spring         3 IST 260W*         3 Option 3*         3 Option 3*         3 Business Selection*         3 General Education Course (GN or GA or GH)         3 General Education Course (GHW)         15         Credits Spring	<b>Credits</b> 3 3 3 3 3 3 3
GH) Third Year Fall IST 302* IST 331* Option 2* Networking Selection* General Education Course (GN or GA or GH) Fourth Year Fall IST 495*	16         Credits Spring         3 IST 260W*         3 Option 3*         3 Option 3*         3 Business Selection*         3 General Education Course (GN or GA or GH)         3 General Education Course (GHW)         15         Credits Spring         1 IST 440W*	Credits 3 3 3 3 3 3 3 15
GH) Third Year Fall IST 302* IST 331* Option 2* Networking Selection* General Education Course (GN or GA or GH) Fourth Year Fall IST 495* Option 4*	16         Credits Spring         3 IST 260W*         3 Option 3*         3 Option 3*         3 Business Selection*         3 General Education Course (GN or GA or GH)         3 General Education Course (GHW)         15         Credits Spring	Credits 3 3 3 3 3 3 3 2 3 5 Credits
GH) Third Year Fall IST 302* IST 331* Option 2* Networking Selection* General Education Course (GN or GA or GH) Fourth Year Fall IST 495*	16         Credits Spring         3 IST 260W*         3 Option 3*         3 Option 3*         3 Business Selection*         3 General Education Course (GN or GA or GH)         3 General Education Course (GHW)         15         Credits Spring         1 IST 440W*	Credits 3 3 3 3 3 3 3 3 5 5 Credits 3
GH) Third Year Fall IST 302* IST 331* Option 2* Networking Selection* General Education Course (GN or GA or GH) Fourth Year Fall IST 495* Option 4*	16         Credits Spring         3 IST 260W*         3 Option 3*         3 Option 3         3 Business Selection*         3 General Education Course (GN or GA or GH)         3 General Education Course (GHW)         15         Credits Spring         1 IST 440W*         3 ETI 461*         3 General Education Course	Credits 3 3 3 3 3 3 3 5 <b>Credits</b> 3 3 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

#### 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.

- 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:

## Wilkes-Barre Campus

### Custom Information Technology Option: Information Technology, B.S. at Wilkes-Barre 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) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>‡</sup>	4
IST 140 <sup>*#</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (PSU 8)	1 SRA 111 (GS) <sup>*†</sup>	3
General Education Course	3 General Education Course	3
(GN or GA or GH) or Elective	(GN or GA or GH)	
Elective or General	3	
Education Course (GN/GA/ GH)		
	16	16
Second Year		
Fall	Credits Spring	Credits
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 IST 210 <sup>*#</sup>	3
ECON 102/ECON 104 or	3 IST 230 <sup>*</sup>	3
PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>		
Business Selection*	3 IST 256 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 SRA 221 <sup>*</sup>	3
IST 220 <sup>*#</sup>	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
	16	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 IST 331 (Option 1) <sup>*</sup>	3
Networking Selection*	3 Option 2 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 1 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
· · · ·	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 440W <sup>*</sup>	3 ETI 461 <sup>*</sup>	3
IST 495 <sup>*</sup>	1 Option 4 <sup>*</sup>	3
Advanced IT Selection $2^*$	3 General Education Course (GN or GA or GH)	3
Option 3 <sup>*</sup>	3 Elective	2
General Education Course (GHW)	3	

Elective	3	
	16	11

#### Total Credits 120

E

- \* 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.

- 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:

## **York Campus**

## Application Development Option: Information Technology, 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
ENGL 15 or 30H (GWS) $\ddagger$	3 CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 ECON 102 (GS) <sup>†</sup>	3
General Education Course (GN or GA or GH) or Elective	3	
	16	15
Second Year		
Fall	Credits Spring	Credits
MATH 110 or 140 (GQ) <sup>‡</sup>	4 IST 256 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 IST 230 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 MGMT 301 <sup>*</sup>	3
IST 260W <sup>*</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
SRA 221 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	17	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 Elective or General Education Course (GN/GA/ GH)	3
IST 311 (Option 1)*	3 IST 331 <sup>*</sup>	3
Networking Selection <sup>*</sup>	3 MKTG 301 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Business Course <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Elective	3
Advanced IT Selection: IST 402 <sup>*</sup>	3 Advanced IT Selection: MIS 404 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

IST 413 (Option 4) <sup>*</sup>	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

#### 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.

- 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:

## Business Applications Option: Information Technology, 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
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100*#	3 IST 210 <sup>*#</sup>	3
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 ECON 102 (GS) <sup>†</sup>	3
General Education Course (GN or GA or GH) or Elective	3	
	16	15
Second Year		
Fall	Credits Spring	Credits
MATH 110 or 140 (GQ) <sup>‡</sup>	4 IST 256 <sup>*</sup>	3
SRA 221 <sup>*</sup>	3 IST 230 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 MGMT 301 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
IST 260W <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	17	15
Third Year	17	15
Fall	Credits Spring	15 Credits
Fall	<b>Credits Spring</b> 3 Elective or General Education Course (GN/GA/	Credits
Fall IST 302 <sup>*</sup>	<b>Credits Spring</b> 3 Elective or General Education Course (GN/GA/ GH) <sup>*</sup>	Credits 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup>	Credits Spring 3 Elective or General Education Course (GN/GA/ GH) <sup>*</sup> 3 MKTG 301 <sup>*</sup>	Credits 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course*	Credits 3 3 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course	<b>Credits</b> 3 3 3 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course (GN or GA or GH) 16	<b>Credits</b> 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course (GN or GA or GH) 16 Credits Spring	<b>Credits</b> 3 3 3 3 3 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W*	Credits 3 3 3 3 3 3 5 Credits 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup>	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W* 3 Elective	Credits 3 3 3 3 3 3 3 5 <b>Credits</b> 3 3 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W*	Credits 3 3 3 3 3 3 5 <b>Credits</b> 3
Fall IST 302 <sup>*</sup> Networking Selection <sup>*</sup> ACCTG 211 (Option 1) <sup>*</sup> General Education Course (GN or GA or GH) General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup> Advanced IT Selection: IST	Credits Spring 3 Elective or General Education Course (GN/GA/ GH)* 3 MKTG 301* 4 Business Course* 3 IST 331* 3 General Education Course (GN or GA or GH) 16 Credits Spring 1 IST 440W* 3 Elective 3 Advanced IT Selection: MIS	Credits 3 3 3 3 3 3 3 5 <b>Credits</b> 3 3 3

Option 4 <sup>*</sup>	3 Elective	1
	13	13

#### 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

#### **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.

- 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:

### Custom Information Technology Option: Information Technology, 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

	Credite Caring	Credite
Fall	Credits Spring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A, 100B, or 100C (GWS) <sup>‡</sup>	3
IST 110 or CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 ECON 102 (GS) <sup>†</sup>	3
General Education Course (GN or GA or GH) or Elective	3	
	16	15
Second Year		
Fall	Credits Spring	Credits
MATH 110 or 140 (GQ) <sup>‡</sup>	4 IST 256 <sup>*</sup>	3
SRA 221 <sup>*</sup>	3 IST 230 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM	4 MGMT 301 <sup>*</sup>	3
$200^{\ddagger}$ (GQ) or DS $200^{*}$		Ũ
Elective or General Education Course (GN/GA/ GH)	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
IST 260W <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	17	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3
Networking Selection*	3 MKTG 301 <sup>*</sup>	3
Option 1 <sup>*</sup>	3 Business Course <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 IST 331 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	15	15
Fourth Year		
Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Elective	3
Advanced IT Selection: IST 402 <sup>*</sup>	3 Advanced IT Selection: MIS 404*	3
102	404	
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

Option 4 <sup>*</sup>	3 Elective	2
	13	14

#### Total Credits 120

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# Course is an Entrance to Major requirement

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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.

- 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:

## CyberSecurity Option: Information Technology, B.S. at York Campus

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#### First Year

ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A, 100B, or 100C	3
CYBER 100 <sup>*#</sup>	(GWS) <sup>‡</sup> 3 IST 210 <sup>*#</sup>	2
IST 140 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3 3
SRA 111 (GS) <sup>*†</sup>	3 IST 242 <sup>*</sup>	3
First-Year Seminar (IST	1 ECON 102 (GS) <sup>†</sup>	3
111S)	T ECON 102 (03)	5
General Education Course	3	
(GN or GA or GH) or Elective	16	15
Second Year	10	15
Fall	Credits Spring	Credits
MATH 110 or 140 (GQ) <sup>‡</sup>	4 IST 256 <sup>*</sup>	3
SRA 221 <sup>*</sup>	3 IST 230 <sup>*</sup>	3
STAT 200 <sup>‡</sup> (GQ) or SCM	4 MGMT 301 <sup>*</sup>	3
$200^{\ddagger}$ (GQ) or DS $200^{*}$		
IST 260W <sup>*</sup>	3 ENGL 202C or 202D (GWS) $^{\ddagger}$	3
Elective or General	3 General Education Course	3
Education Course (GN/GA/ GH)	(GN or GA or GH)	
	17	15
Third Year		
Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 General Education Course	3
	(GN or GA or GH) <sup>*</sup>	
CYBER 262 (Option 1)*	3 MKTG 301 <sup>*</sup>	3
Networking Selection*	3 Business Course <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 IST 331 <sup>*</sup>	3
General Education Course	3 General Education Course (GN or GA or GH)	3
	3 General Education Course (GN or GA or GH) 15	3
General Education Course	(GN or GA or GH)	
General Education Course (GN or GA or GH)	(GN or GA or GH)	
General Education Course (GN or GA or GH) Fourth Year	(GN or GA or GH) 15	15
General Education Course (GN or GA or GH) Fourth Year Fall	(GN or GA or GH) 15 Credits Spring	15 Credits
General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup>	(GN or GA or GH) 15 Credits Spring 1 IST 440W <sup>*</sup>	15 Credits 3
General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup> Advanced IT Selection: IST	(GN or GA or GH) 15 Credits Spring 1 IST 440W <sup>*</sup> 3 Elective 3 Advanced IT Selection: MIS	15 Credits 3 3
General Education Course (GN or GA or GH) Fourth Year Fall IST 495 <sup>*</sup> ETI 461 <sup>*</sup> Advanced IT Selection: IST 402 <sup>*</sup> General Education Course	(GN or GA or GH) 15 Credits Spring 1 IST 440W <sup>*</sup> 3 Elective 3 Advanced IT Selection: MIS 404 <sup>*</sup> 3 General Education Course	<b>15</b> <b>Credits</b> 3 3 3 3

- ‡ 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:

- 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

**Total Credits 120** 

\* Course requires a grade of C or better for the major