

# 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

## Program Description

This degree is a new broad based technical and theoretical degree that will prepare students to implement and use information technology to realize a variety of goals within and between all types of organizations and businesses (e.g., reliability, accessibility, efficiency, cost reduction, and revenue enhancement). The emphasis is on providing the student with the theoretical frameworks needed to use information technology to solve problems while also providing a set of applied, real-world experiences. Students will acquire a broad set of skills across many areas of information technology, including programming and systems development, networking, databases, project management, and information security. Students will consider how the implementation of information technology in organizations affects social change and the delivery of information to the consumer. Upper-level course selections allow for specific advanced options including but not limited to application development, networking, cybersecurity, and business. Project-oriented, team-based projects that include significant writing and presentation components will be integrated throughout the curriculum.

### Application Development Option

**Available at the following campuses:** Abington, Altoona, Beaver, Berks, Brandywine, Lehigh Valley, Schuylkill, Scranton, York

This option prepares students for the design and development of complex object-oriented programming and technical skills to succeed in a fast-paced development and operations environment.

### Business Applications Option

**Available at the following campuses:** Abington, Altoona, Beaver, Berks, Brandywine, DuBois, Greater Allegheny, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, York

This option prepares students to pursue careers in Information technology solving business organizational problems with an emphasis on the systems processes and business operations integration.

### Custom Information Technology Option

**Available at the following campuses:** Altoona, Berks, Brandywine, Greater Allegheny, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, Wilkes-Barre, York

This option provides the opportunity for students to pursue an approved information technology interdisciplinary or exploratory program of study.

### Cybersecurity Option

**Available at the following campuses:** Altoona, Beaver, Berks, Brandywine, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, York

This option will provide students with the knowledge and cyber defense skills needed to critically assess and respond to modern

information security threats. They will be prepared to protect information infrastructure and data from attacks and unauthorized access.

### Networking Option

**Available at the following campuses:** Abington, DuBois, Mont Alto

This option prepares students to pursue careers in the design, development, and support of complex networks and networking infrastructure.

### Security and Risk Analysis Option

**Available at the following campuses:** Altoona, Berks, Brandywine, Lehigh Valley, Schuylkill

This option prepares students to address the current and emerging security and risk challenges that face individuals, organizations and our nation, over a variety of domains including national/homeland security, emergency and disaster management, law and crime, and enterprise risk management.

## What is Information Technology?

Information Technology offers both broad organizational problem-solving skills and in-depth knowledge in current in-demand technical skills. Using technology to leverage organizational resources and address organizational challenges are at the forefront of the B.S. degree in Information Technology. The program includes required and optional courses in cybersecurity, databases, computer programming, project management, security and risk analysis, networking, web design and development, application development, and systems analysis. This broad base of skills is ideally suited for entry-level positions in all the above content areas.

### You Might Like This Program If...

- You enjoy technology and working with others to build solutions.
- You want to create high-tech solutions to organizational and societal challenges.
- You are interested in application development and programming.
- You are interested in improving computer systems and enhancing their safety for individuals and corporations.
- You want to leverage current and emerging technologies to improve business processes.

## Entrance to Major

To be eligible for entrance to the B.S. in Information Technology major, students must:

- achieve a minimum cumulative grade point average of 2.00
- complete the following entrance-to-major courses with grades of C or better:
  - IST 110 or CYBER 100 or CYBER 100S
  - IST 140 or CMPSC 121 or CMPSC 131
  - IST 210
  - IST 220

## Degree Requirements

**For the Bachelor of Science degree in Information Technology, a minimum of 120 credits is required:**

Requirement	Credits
General Education	45
Electives	7-9
Requirements for the Major	87-89

**21 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 9 credits of GWS courses; 6 credits of GQ courses; and 6 credits of GS courses.**

## Requirements for the Major

To graduate, a student enrolled in the major must earn a grade of C or better in each course designated by the major as a C-required course, as specified by Senate Policy 82-44 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44>).

### Common Requirements for the Major (All Options)

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
ETI 461	Database Management and Administration	3
IST 210	Organization of Data	3
IST 220	Networking and Telecommunications	3
IST 230	Language, Logic, and Discrete Mathematics	3
IST 242	Intermediate & Object-Oriented Application Development	3
IST 256	Programming for the Web	3
IST 260W	Introduction to Systems Analysis and Design	3
IST 302	IT Project Management	3
IST 331	Foundations of Human-Centered Design	3
IST 440W	Information Sciences and Technology Integration and Problem Solving	3
IST 495	Internship	1
SRA 111	Introduction to Security and Risk Analysis	3
SRA 221	Overview of Information Security	3
<b>Additional Courses</b>		
Select one of the following:		3
ECON 102	Introductory Microeconomic Analysis and Policy	
ECON 104	Introductory Macroeconomic Analysis and Policy	
PLSC 1	American Politics: Principles, Processes and Powers	
PLSC 14	International Relations	
PSYCH 100	Introductory Psychology	
SOC 5	Social Problems	
<i>Additional Courses: Require a grade of C or better</i>		
ENGL 15	Rhetoric and Composition	3
or ENGL 30H	Honors Rhetoric and Composition	
ENGL 202C	Effective Writing: Technical Writing	3
or ENGL 202D	Effective Writing: Business Writing	
MATH 110	Techniques of Calculus I	4
or MATH 140	Calculus With Analytic Geometry I	
Select one of the following:		3
CAS 100A	Effective Speech	
CAS 100B	Effective Speech	
CAS 100C	Effective Speech	

Select one of the following:		3
CMPSC 121	Introduction to Programming Techniques	
CMPSC 131	Programming and Computation I: Fundamentals	
IST 140	Introduction to Application Development	

Select one of the following:		3
CYBER 100	Computer Systems Literacy	
CYBER 100S	Computer Systems Literacy	
IST 110	Information, People and Technology	

Select one of the following:		4
DS 200	Introduction to Data Sciences	
STAT 200	Elementary Statistics	
SCM 200	Introduction to Statistics for Business	

Select one of the following: <sup>1</sup>		3-4
ACCTG 211	Financial and Managerial Accounting for Decision Making	

BA 100	Introduction to Business	
ECON 102	Introductory Microeconomic Analysis and Policy <sup>2</sup>	
ECON 104	Introductory Macroeconomic Analysis and Policy <sup>2</sup>	
MGMT 301	Basic Management Concepts	
MKTG 301	Principles of Marketing <sup>2</sup>	

Select one of the following: <sup>1</sup>		3
CYBER 262	Cyber-Defense Studio	
IST 226	Networking Essentials	
IST 451	Network Security	
IST 454	Computer and Cyber Forensics	

### Requirements for the Option

Select an option	18-19
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<sup>1</sup> These courses may not double count with other additional or option requirements.

<sup>2</sup> Course does not require a grade of C or better.

### Requirements for the Option

#### Application Development Option (18 credits)

**Available at the following campuses: Abington, Altoona, Beaver, Berks, Brandywine, Lehigh Valley, Schuylkill, Scranton, York**

Code	Title	Credits
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select 12 credits, with at least 3 credits at the 400 level, from the following:		12
IST 261	Application Development Design Studio I	
IST 311	Object-Oriented Design and Software Applications	
IST 361	Application Development Design Studio II	
IST 411	Distributed-Object Computing	
IST 412	The Engineering of Complex Software Systems	
IST 413	Usability Engineering	

### Supporting Courses and Related Areas

*Supporting Courses and Related Areas: Require a grade of C or better*

Select 6 credits at the 300 or 400 level in Advanced IT courses from College approved list.	6
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**Business Applications Option (19 credits)**

*Available at the following campuses: Abington, Altoona, Beaver, Berks, Brandywine, DuBois, Greater Allegheny, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, York*

Code	Title	Credits
<b>Prescribed Courses</b>		
<i>Prescribed Courses: Require a grade of C or better</i>		
ACCTG 211	Financial and Managerial Accounting for Decision Making	4
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select one of the following: <sup>1</sup>		3
FIN 301	Corporation Finance	
MGMT 301	Basic Management Concepts	
MKTG 301	Principles of Marketing	
SCM 301	Supply Chain Management	

**Supporting Courses and Related Areas**

*Supporting Courses and Related Areas: Require a grade of C or better*

Select 6 credits from ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT, including 3 credits at the 400-level. 6

Select 3 credits at the 300 or 400 level in Advanced IT Business courses from College-approved list. 3

Select 3 credits at the 300 or 400 level in Advanced IT courses from College-approved list. 3

<sup>1</sup> Option courses may not double count with other requirements.

**Custom Information Technology Option (18 credits)**

*Available at the following campuses: Altoona, Berks, Brandywine, Greater Allegheny, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, Wilkes-Barre, York*

Code	Title	Credits
<b>Supporting Courses and Related Areas</b>		
<i>Supporting Courses and Related Areas: Require a grade of C or better</i>		
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. 12		
Select 6 credits at the 300 or 400 level in Advanced IT courses from College-approved list. 6		

**Cybersecurity Option (18 credits)**

*Available at the following campuses: Altoona, Beaver, Berks, Brandywine, Lehigh Valley, Mont Alto, New Kensington, Schuylkill, Scranton, York*

Code	Title	Credits
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select 12 credits, with at least 3 credits at the 400 level, from the following: 12		
CYBER 262	Cyber-Defense Studio	
IST 451	Network Security	
IST 454	Computer and Cyber Forensics	
IST 456	Information Security Management	
SRA 472	Integration of Privacy and Security	

Any 300 or 400 Level CYBER Course

**Supporting Courses and Related Areas**

*Supporting Courses and Related Areas: Require a grade of C or better*

Select 6 credits at the 300 or 400 level in Advanced IT courses from College-approved list. 6

**Networking Option (18 credits)**

*Available at the following campuses: Abington, DuBois, Mont Alto*

Code	Title	Credits
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select 12 credits, with at least 3 credits at the 400 level, from the following: 12		
CYBER 262	Cyber-Defense Studio	
IST 225	PC Hardware Basics	
IST 226	Networking Essentials	
IST 227	Network Administration	
IST 228	Advanced Network Administration	
IST 451	Network Security	
IST 454	Computer and Cyber Forensics	

**Supporting Courses and Related Areas**

*Supporting Courses and Related Areas: Require a grade of C or better*

Select 6 credits at the 300 or 400 level in Advanced IT courses from College-approved list. 6

**Security and Risk Analysis Option (18 credits)**

*Available at the following campuses: Altoona, Berks, Brandywine, Lehigh Valley, Schuylkill*

Code	Title	Credits
<b>Additional Courses</b>		
<i>Additional Courses: Require a grade of C or better</i>		
Select 12 credits, with at least 3 credits at the 400 level, from the following: 12		
IST 432	Legal and Regulatory Environment of Information Science and Technology	
IST 452	Legal and Regulatory Environment of Privacy and Security	
IST 456	Information Security Management	
SRA 211	Threat of Terrorism and Crime	
SRA 231	Decision Theory and Analysis	
SRA 311	Risk Analysis in a Security Context	
SRA 365	Statistics for Security and Risk Analysis	

**Supporting Courses and Related Areas**

*Supporting Courses and Related Areas: Require a grade of C or better*

Select 6 credits at the 300 or 400 level in Advanced IT courses from College-approved list. 6

**General Education**

Connecting career and curiosity, the General Education curriculum provides the opportunity for students to acquire transferable skills necessary to be successful in the future and to thrive while living in interconnected contexts. General Education aids students in developing intellectual curiosity, a strengthened ability to think, and a deeper sense of aesthetic appreciation. These are requirements for all baccalaureate students and are often partially incorporated into the requirements

of a program. For additional information, see the General Education Requirements (<https://bulletins.psu.edu/undergraduate/general-education/baccalaureate-degree-general-education-program/>) section of the Bulletin and consult your academic adviser.

The keystone symbol appears next to the title of any course that is designated as a General Education course. Program requirements may also satisfy General Education requirements and vary for each program.

### **Foundations (grade of C or better is required and Inter-Domain courses do not meet this requirement.)**

- **Quantification (GQ):** 6 credits
- **Writing and Speaking (GWS):** 9 credits

### **Breadth in the Knowledge Domains (Inter-Domain courses do not meet this requirement.)**

- **Arts (GA):** 3 credits
- **Health and Wellness (GHW):** 3 credits
- **Humanities (GH):** 3 credits
- **Social and Behavioral Sciences (GS):** 3 credits
- **Natural Sciences (GN):** 3 credits

### **Integrative Studies**

- **Inter-Domain Courses (Inter-Domain):** 6 credits

### **Exploration**

- **GN**, may be completed with Inter-Domain courses: 3 credits
- **GA, GH, GN, GS, Inter-Domain courses.** This may include 3 credits of World Language course work beyond the 12th credit level or the requirements for the student's degree program, whichever is higher: 6 credits

## **University Degree Requirements**

### **First Year Engagement**

All students enrolled in a college or the Division of Undergraduate Studies at University Park, and the World Campus are required to take 1 to 3 credits of the First-Year Seminar, as specified by their college First-Year Engagement Plan.

Other Penn State colleges and campuses may require the First-Year Seminar; colleges and campuses that do not require a First-Year Seminar provide students with a first-year engagement experience.

First-year baccalaureate students entering Penn State should consult their academic adviser for these requirements.

### **Cultures Requirement**

6 credits are required and may satisfy other requirements

- **United States Cultures:** 3 credits
- **International Cultures:** 3 credits

### **Writing Across the Curriculum**

3 credits required from the college of graduation and likely prescribed as part of major requirements.

### **Total Minimum Credits**

A minimum of 120 degree credits must be earned for a baccalaureate degree. The requirements for some programs may exceed 120 credits. Students should consult with their college or department adviser for information on specific credit requirements.

### **Quality of Work**

Candidates must complete the degree requirements for their major and earn at least a 2.00 grade-point average for all courses completed within their degree program.

### **Limitations on Source and Time for Credit Acquisition**

The college dean or campus chancellor and program faculty may require up to 24 credits of course work in the major to be taken at the location or in the college or program where the degree is earned. Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#83-80>)). For more information, check the Suggested Academic Plan for your intended program.

## **Academic Advising**

The objectives of the university's academic advising program are to help advisees identify and achieve their academic goals, to promote their intellectual discovery, and to encourage students to take advantage of both in-and out-of class educational opportunities in order that they become self-directed learners and decision makers.

Both advisers and advisees share responsibility for making the advising relationship succeed. By encouraging their advisees to become engaged in their education, to meet their educational goals, and to develop the habit of learning, advisers assume a significant educational role. The advisee's unit of enrollment will provide each advisee with a primary academic adviser, the information needed to plan the chosen program of study, and referrals to other specialized resources.

READ SENATE POLICY 32-00: ADVISING POLICY (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy/>)

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## Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2024-25 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition.

### Advanced IT Selection – All Options

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

Code	Title	Credits
IST 402	Emerging Issues and Technologies	3
IST 413	Usability Engineering	3
IST 425	New Venture Creation	3
IST 431	The Information Environment	3
IST 446	An Introduction to Building Computer/Video Games	3
IST 454	Computer and Cyber Forensics	3

IST 456	Information Security Management	3
MIS 390	Foundations of Information Systems	3
MIS 404	Introduction to ERP and Business Processes	3
IST 301	Information and Organizations	3
IST 420	Fundamentals of Systems and Enterprise Integration	3
IST 421	Advanced Enterprise Integration: Technologies and Applications	3
IST 432	Legal and Regulatory Environment of Information Science and Technology	3
IST 452	Legal and Regulatory Environment of Privacy and Security	3

## 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 <sup>*#</sup> 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 <sup>*</sup>	3
First-Year Seminar (IST 111S)	1 General Education Course (GN or GA or GH)	3
MATH 110 or 140 (GQ) <sup>‡</sup>	4	
	<b>17</b>	<b>15</b>

#### Second Year

Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	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) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/GH)	3 General Education Course (GN or GA or GH)	3
	<b>15</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 261 (Option 2) <sup>*</sup>	3
IST 311 (Option 1) <sup>*</sup>	3 IST 411 (Option 3) <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Networking Selection (IST 454) <sup>*</sup> or General Education (GA or GN or GH)	3

General Education Course (GN or GA or GH) or Networking Selection (IST 451 or CYBER 262)	3 General Education Course (GN or GA or GH)	3
IST 260W <sup>*</sup>	3 IST 390	1
	<b>15</b>	<b>13</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 IST 413 (Option 4) <sup>*</sup>	3
General Education Course (GHW)	3 Advanced IT Selection 1 <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Advanced IT Selection 2 <sup>*</sup>	3
Elective	3 General Education Course (GN or GA or GH)	3
	Elective	2
	<b>13</b>	<b>17</b>

#### 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.

#### Advising Notes:

- Business Selection Courses (cannot double count with other Additional or Option requirements):
  - ACCTG 211
  - BA 100
  - ECON 102
  - ECON 104
  - MGMT 301
  - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
  - CYBER 262
  - IST 226
  - IST 451
  - IST 454

- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from:  
IST 261, IST 311, IST 361, IST 411, IST 412, IST 413
  - Business Applications:
    - ACCTG 211
    - Select 3 credits from: FIN 301, MGMT 301, MKTG 301, SCM 301
    - Select 6 credits, with at least 3 credits at the 400 level from:  
ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT
  - Cybersecurity:
    - Select 12 credits, with at least 3 credits at the 400 level from:  
CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
  - Security and Risk Analysis:
    - Select 12 credits, with at least 3 credits at the 400 level from:  
SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452, IST 456

### Business Applications Option: Information Technology, B.S. at 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* <sup>#</sup> or CYBER 100* <sup>#</sup>	3 MATH 110 or 140 (GQ) <sup>†</sup>	4
IST 140* <sup>#</sup> 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	
	<b>16</b>	<b>16</b>

#### Second Year

Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 STAT 200 <sup>†</sup> (GQ) or SCM 200 <sup>†</sup> (GQ) or DS 200 <sup>*</sup>	3
ACCTG 211 (Option 1) <sup>*</sup>	4 Elective or General Education Course (GN/GA/GH)	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
SRA 221 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 Option 2 (MKTG 301) <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Advanced IT Selection - Business Option (MIS 301) <sup>*</sup>	3
Business Selection (MGMT 301) <sup>*</sup>	4 Networking Selection (IST 451) <sup>*</sup>	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)	3
IST 260W <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	IST 390	1
	<b>16</b>	<b>16</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Option 4 (SCM 460 or MIS 431) <sup>*</sup>	3

Option 3 (SCM 301) <sup>*</sup>	3 Advanced IT Selection (IST 456 or SCM 340 or MIS 345 or MIS 390) <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
Elective	3 Elective	1
	<b>13</b>	<b>13</b>

#### 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 <sup>*#</sup> 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	
	<b>17</b>	<b>15</b>

**Second Year**

Fall	Credits Spring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <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
CYBER 262 (Option 1) <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 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
	<b>15</b>	<b>16</b>

**Third Year**

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Advanced IT Selection 1 (MIS 301) <sup>*</sup>	3
Option 2 (IST 423) <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
IST 260W	3 IST 390	1
Networking Selection (IST 451) <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	General Education Course (GN or GA or GH)	3
	<b>15</b>	<b>16</b>

**Fourth Year**

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W	3
ETI 461 <sup>*</sup>	3 Advanced IT Selection 2 (IST 413) <sup>*</sup>	3
General Education Course (GHW)	3 Option 3 (IST 456) <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Option 4 (IST 454) <sup>*</sup>	3

Elective	3 General Education Course (GN or GA or GH)	3
	Elective	3
	<b>13</b>	<b>18</b>

**Total Credits 125**

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

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

# Course is an Entrance to Major requirement

† Course satisfies General Education and degree requirement

**University Requirements and General Education Notes:**

US and IL are abbreviations used to designate courses that satisfy Cultural Diversity Requirements (United States and International Cultures).

W, M, X, and Y are the suffixes at the end of a course number used to designate courses that satisfy University Writing Across the Curriculum requirement.

General Education includes Foundations (GWS and GQ), Knowledge Domains (GHW, GN, GA, GH, GS) and Integrative Studies (Inter-domain) requirements. N or Q (Honors) is the suffix at the end of a course number used to help identify an Inter-domain course, but the inter-domain attribute is used to fill audit requirements. Foundations courses (GWS and GQ) require a grade of 'C' or better.

**Advising Notes:**

- 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



## 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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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
IST 261 (Option 1) <sup>*</sup>	3 Business Selection <sup>*</sup>	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
	<b>16</b>	<b>15</b>

#### 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 (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 Advanced IT Selection 2 <sup>*</sup>	3
IST 412 (Option 4) <sup>*</sup>	3 General Education Course (GHW)	3
Advanced IT Selection 1 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	2
	<b>13</b>	<b>14</b>

#### 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.

#### Advising Notes:

- Business Selection Courses (cannot double count with other Additional or Option requirements):
  - ACCTG 211
  - BA 100
  - ECON 102
  - ECON 104
  - MGMT 301
  - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
  - CYBER 262
  - IST 226
  - IST 451
  - IST 454
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: IST 261, IST 311, IST 361, IST 411, IST 412, IST 413
  - Business Applications:
    - ACCTG 211
    - Select 3 credits from: FIN 301, MGMT 301, MKTG 301, SCM 301
    - Select 6 credits, with at least 3 credits at the 400 level from: ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT
  - Cybersecurity:
    - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
  - Security and Risk Analysis:

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

### Business Applications Option: Information Technology, B.S. at 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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>16</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
Option 2 <sup>*</sup>	3 IST 331 <sup>*</sup>	3
Business Selection <sup>*</sup>	4 Advanced IT Selection - Business Option <sup>*</sup>	3
Networking Selection <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
	<b>16</b>	<b>15</b>

#### 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 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	1
	<b>13</b>	<b>13</b>

#### 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

### 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

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> 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	
	<b>16</b>	<b>16</b>

#### 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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
Networking Selection <sup>*</sup>	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
	<b>15</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### 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 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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
CYBER 262 (Option 1) <sup>*</sup>	3 IST 331 <sup>*</sup>	3
IST 451 (Networking Selection) <sup>*</sup>	3 CYBER 366 (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
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <sup>*</sup>	3 IST 454 (Option 4) <sup>*</sup>	3
IST 456 (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

Elective	3 Elective	2
	<b>13</b>	<b>14</b>

#### 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.

#### 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

### 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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
SRA 231 (Option 2) <sup>*</sup>	3 IST 331 <sup>*</sup>	3
Networking Selection <sup>*</sup>	3 Business Selection <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
	<b>15</b>	<b>15</b>

#### 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) <sup>*</sup>	3
IST 456 (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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### 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

## 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		
	<b>16</b>		<b>15</b>

#### 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
	<b>16</b>		<b>15</b>

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

#### Fourth Year

Fall	Credits	Spring	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		
	<b>15</b>		<b>12</b>

#### 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.

#### Advising Notes:

- 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		
	<b>16</b>		<b>15</b>

**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
	<b>15</b>		<b>15</b>

**Third Year**

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

**Fourth Year**

Fall	Credits	Spring	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		
	<b>15</b>		<b>12</b>

**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.

**Advising Notes:**

- 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	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> 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	
	<b>16</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>16</b>

#### 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>	4 Advanced IT Selection - Business Option <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Networking Selection <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### 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 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	1
	<b>13</b>	<b>13</b>

#### 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

### 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	CreditsSpring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100A (GWS) <sup>‡</sup>	3
CYBER 100 <sup>*#</sup>	3 IST 230	3
IST 140 <sup>*#</sup> 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
MATH 110 or 140 (GQ) <sup>‡</sup>	4 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### Second Year

Fall	CreditsSpring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
General Education Course (GN or GA or GH) or Elective	3 SRA 221	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection <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
	<b>16</b>	<b>16</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
General Education Course (GN or GA or GH)	3 IST 260W <sup>*</sup>	3 IST 495 <sup>*</sup>	1
IST 302 <sup>*</sup>	3 Option 2 <sup>*</sup>	3	
Networking Selection: IST 226 or IST 454	3 Advanced IT Selection <sup>*</sup>	3	

Option 1 <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 (GHW) <sup>*</sup>	3
	<b>15</b>	<b>15</b>
		<b>1</b>
<b>Fourth Year</b>		
Fall	CreditsSpring	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 General Education Course (GN or GA or GH)	3
	Elective	2
	<b>12</b>	<b>14</b>

#### 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.

#### Advising Notes:

- 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) <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> 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	
	<b>16</b>	<b>16</b>

#### 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
	<b>16</b>	<b>16</b>

#### Third Year

Fall	Credits Spring	Credits
ETI 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 2 <sup>*</sup>	3
Business Selection <sup>*</sup>	4 Advanced IT Selection - Business Option <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Networking Selection <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### 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 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	1
	<b>13</b>	<b>13</b>

#### 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
  - 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

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> 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	
	<b>16</b>	<b>16</b>

#### 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) <sup>†</sup>	3
Elective or General Education Course (GN/GA/GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	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 <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
	<b>15</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### 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
  - 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

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
	<b>15</b>	<b>16</b>

#### 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 Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 311 (Option 1) <sup>*</sup>	3 IST 261 (Option 2) <sup>*</sup>	3
IST 331 <sup>*</sup>	3 IST 411 (Option 3) <sup>*</sup>	3
IST 495 <sup>*1</sup>	1 Networking Selection <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	
	<b>16</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <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 (GHW)	3 General Education Course (GN or GA or GH)	3
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### Advising Notes:

- Business Selection Courses (cannot double count with other Additional or Option requirements):
  - ACCTG 211
  - BA 100
  - ECON 102
  - ECON 104
  - MGMT 301
  - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
  - CYBER 262
  - IST 226
  - IST 451
  - IST 454
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: IST 261, IST 311, IST 361, IST 411, IST 412, IST 413
  - Business Applications:
    - ACCTG 211
    - Select 3 credits from: FIN 301, MGMT 301, MKTG 301, SCM 301
    - Select 6 credits, with at least 3 credits at the 400 level from: ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT
  - Cybersecurity:
    - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
  - Security and Risk Analysis:
    - Select 12 credits, with at least 3 credits at the 400 level from: SRA 211, SRA 231, SRA 311, SRA 365, IST 432, IST 452, IST 456



### Business Applications Option: Information Technology, B.S. at 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
	<b>15</b>	<b>16</b>

#### 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) <sup>*</sup>	4
ECON 102 or 104 (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
	<b>16</b>	<b>16</b>

#### 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 <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	
	<b>17</b>	<b>15</b>

#### 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 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3
Elective	3 Elective	1
	<b>13</b>	<b>13</b>

**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> 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.

#### 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

### 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

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
	<b>15</b>	<b>16</b>

#### 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 Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### 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 <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	
	<b>16</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### 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 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
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
	<b>15</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>15</b>

#### 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 <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	
	<b>16</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### 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

## Security and Risk Analysis 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	3 General Education Course (GN or GA or GH)	3
	<b>15</b>	<b>16</b>

### 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 Education Course (GN/GA/ GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

### 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
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 (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH)	3	
	<b>16</b>	<b>15</b>

### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

### 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

## 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	CreditsSpring	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	
	<b>17</b>	<b>15</b>

#### Second Year

Fall	CreditsSpring	Credits
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 (GQ) <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
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
	<b>16</b>	<b>16</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
IST 256 <sup>*</sup>	3 IST 331 <sup>*</sup>	3 IST 495 <sup>*</sup>	1
IST 260W <sup>*</sup>	3 Option 2 <sup>*</sup>	3	
IST 302 <sup>*</sup>	3 Advanced IT Selection - Business Option <sup>*</sup>	3	
Business Selection <sup>*</sup>	4 General Education Course (GN or GA or GH) <sup>*</sup>	3	

General Education Course	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>
<b>Fourth Year</b>		<b>1</b>
<b>Fall</b>	<b>CreditsSpring</b>	<b>Credits</b>
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
	<b>12</b>	<b>13</b>

#### 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.

#### 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:
  - 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

Fall	CreditsSpring	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	
	<b>17</b>	<b>15</b>

#### Second Year

Fall	CreditsSpring	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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
IST 256 <sup>*</sup>	3 Option 2 <sup>*</sup>	3 IST 495 <sup>*</sup>	1
IST 302 <sup>*</sup>	3 Advanced IT Selection 1 <sup>*</sup>	3	
Option 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 (GN or GA or GH)	3	

IST 260W <sup>*</sup>	3 IST 331 <sup>*</sup>	3
	<b>15</b>	<b>15</b>
		<b>1</b>
<b>Fourth Year</b>		
<b>Fall</b>	<b>CreditsSpring</b>	<b>Credits</b>
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
	<b>12</b>	<b>14</b>

#### 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.

#### 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:
  - 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	CreditsSpring	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 <sup>1</sup>	3 SRA 111 <sup>*†</sup>	3
IST 111S (First-Year Seminar)	1 IST 210 <sup>*#</sup>	3
MATH 110 or 140 (GQ) <sup>‡</sup>	4	
	<b>17</b>	<b>15</b>

#### Second Year

Fall	CreditsSpring	Credits
IST 230 <sup>*</sup>	3 SRA 221 <sup>*</sup>	3
STAT 200 (GQ) <sup>‡</sup>	4 Option 1 (CYBER 262)	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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
IST 256 <sup>*</sup>	3 Option 2 <sup>*</sup>	3 IST 495 <sup>*</sup>	1
IST 302 <sup>*</sup>	3 Advanced IT Selection 1 <sup>*</sup>	3	
Business Selection <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	

IST 260W <sup>*</sup>	3 IST 331 <sup>*</sup>	3
	<b>15</b>	<b>15</b>
		<b>1</b>
<b>Fourth Year</b>		
<b>Fall</b>	<b>CreditsSpring</b>	<b>Credits</b>
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
	<b>12</b>	<b>14</b>

#### 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 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:

- 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	CreditsSpring	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	
	<b>17</b>	<b>15</b>

#### Second Year

Fall	CreditsSpring	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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
IST 225 (Option 1) <sup>*</sup>	3 IST 227 (Option 2) <sup>*</sup>	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 Education Course (GN or GA or GH)	3 IST 331 <sup>*</sup>	3	
	<b>15</b>	<b>15</b>	<b>1</b>
<b>Fourth Year</b>			
<b>Fall</b>	<b>CreditsSpring</b>	<b>Credits</b>	
ETI 461 <sup>*</sup>	3 IST 440W <sup>*</sup>	3	
Advanced IT Selection 2 <sup>*</sup>	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	
	<b>12</b>	<b>14</b>	

#### 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.

#### 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:
  - 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

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 <sup>*#</sup> 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
	<b>16</b>	<b>18</b>

#### Second Year

Fall	Credits Spring	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
	<b>16</b>	<b>16</b>

#### Third Year

Fall	Credits Spring	Credits Summer	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3 IST 495 <sup>*</sup>	1

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
	<b>12</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	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
	<b>12</b>	<b>14</b>

#### 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.

#### 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

### 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	CreditsSpring	Credits
ENGL 15 or 30H (GWS) <sup>‡</sup>	3 CAS 100 (GWS) <sup>‡</sup>	3
CYBER 100 <sup>*#</sup>	3 IST 230	3
IST 140 <sup>*#</sup> 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
MATH 110 or 140 (GQ) <sup>‡</sup>	4 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### Second Year

Fall	CreditsSpring	Credits
IST 210 <sup>*#</sup>	3 IST 256 <sup>*</sup>	3
General Education Course (GN or GA or GH) or Elective	3 SRA 221	3
STAT 200 <sup>‡</sup> (GQ) or SCM 200 <sup>‡</sup> (GQ) or DS 200 <sup>*</sup>	4 Business Selection <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
	<b>16</b>	<b>16</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
General Education Course (GN or GA or GH)	3 IST 260W <sup>*</sup>	3 IST 495 <sup>*</sup>	1
IST 302 <sup>*</sup>	3 Option 2 <sup>*</sup>	3	
Networking Selection: IST 226 or IST 454	3 Advanced IT Selection <sup>*</sup>	3	

Option 1 <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 (GHW) <sup>*</sup>	3
	<b>15</b>	<b>15</b>
		<b>1</b>
<b>Fourth Year</b>		
Fall	CreditsSpring	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 General Education Course (GN or GA or GH)	3
	Elective	2
	<b>12</b>	<b>14</b>

#### 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.

#### 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 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	CreditsSpring	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 <sup>*#</sup> 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
<b>16</b>		<b>15</b>

#### Second Year

Fall	CreditsSpring	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	
<b>16</b>		<b>12</b>

#### Third Year

Fall	CreditsSpring	CreditsSummer	Credits
IST 331 <sup>*</sup>	3 IST 260W <sup>*</sup>	3 IST 495 <sup>*</sup>	1
Networking Selection (IST 226 or IST 454) <sup>*</sup>	3 IST 302	3	
Business Selection <sup>*</sup>	3 Advanced IT Selection 1 <sup>*</sup>	3	

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
<b>15</b>		<b>18</b>

#### Fourth Year

Fall	CreditsSpring	Credits
General Education Course (GHW)	3 ETI 461 <sup>*</sup>	3
Option 3 <sup>*</sup>	3 IST 440W <sup>*</sup>	3
Advanced IT Selection 2 <sup>*</sup>	3 IST 452 (Option 4) <sup>*</sup>	3
Elective	3 General Education Course (GN or GA or GH)	3
	Elective	3
<b>12</b>		<b>15</b>

#### 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.

#### 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

## 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 <sup>*#</sup>	3 MATH 110 or 140 (GQ) <sup>†</sup>	4
IST 140 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### Second Year

Fall	Credits Spring	Credits
IST 230 <sup>*</sup>	3 IST 210 <sup>*#</sup>	3
IST 261 (Option 2) <sup>*</sup>	3 IST 256 <sup>*</sup>	3
SRA 221 <sup>*</sup>	3 Business Selection <sup>*</sup>	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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 311 (Option 1) <sup>*</sup>	3 IST 411 (Option 3) <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Networking Selection <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 or General Education Course (GN/GA/GH)	3
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
ETI 461 <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 (GHW)	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	2
	<b>13</b>	<b>14</b>

#### 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.

#### Advising Notes:

- Business Selection Courses (cannot double count with other Additional or Option requirements):
  - ACCTG 211
  - BA 100
  - ECON 102
  - ECON 104
  - MGMT 301
  - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
  - CYBER 262
  - IST 226
  - IST 451
  - IST 454
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: IST 261, IST 311, IST 361, IST 411, IST 412, IST 413
  - Business Applications:
    - ACCTG 211
    - Select 3 credits from: FIN 301, MGMT 301, MKTG 301, SCM 301
    - Select 6 credits, with at least 3 credits at the 400 level from: ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT
  - Cybersecurity:
    - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
  - Security and Risk Analysis:

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

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

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#### 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> 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	
	<b>16</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>16</b>

#### 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>	4 Advanced IT Selection - Business Option <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 Networking Selection <sup>*</sup>	3
General Education Course (GN or GA or GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### 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 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	1
	<b>13</b>	<b>13</b>

#### 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:

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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.

#### 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

### 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	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> 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	
	<b>16</b>	<b>16</b>

#### 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 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
	<b>16</b>	<b>15</b>

#### 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 <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
	<b>15</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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:

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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.

#### 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 Schuylkill Campus

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#### 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> 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	
	<b>16</b>	<b>16</b>

#### Second Year

Fall	Credits Spring	Credits
IST 230 <sup>*</sup>	3 IST 210 <sup>*#</sup>	3
CYBER 262 (Option 1) <sup>*</sup>	3 IST 256 <sup>*</sup>	3
SRA 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
	<b>16</b>	<b>15</b>

#### 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 <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
	<b>15</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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	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> 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	
	<b>16</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>15</b>

#### 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 <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
	<b>15</b>	<b>15</b>

#### 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
Elective	3 Elective	2
	<b>13</b>	<b>14</b>

**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.

#### 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

## 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

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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 331 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 311 (Option 2) <sup>*</sup>	3 IST 411 (Option 3) <sup>*</sup>	3
Networking Selection <sup>*</sup>	3 Business Selection <sup>*</sup>	3
Advanced IT Selection 1 <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
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 440W <sup>*</sup>	3
IST 412 (Option 4) <sup>*</sup>	3 ETI 461 <sup>*</sup>	3
IST 495 <sup>*</sup>	1 General Education Course (GN or GA or GH)	3
Advanced IT Selection 2 <sup>*</sup>	3 Elective	3

General Education Course (GN or GA or GH)	3 Elective	2
	<b>13</b>	<b>14</b>

#### 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.

#### Advising Notes:

- Business Selection Courses (cannot double count with other Additional or Option requirements):
  - ACCTG 211
  - BA 100
  - ECON 102
  - ECON 104
  - MGMT 301
  - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
  - CYBER 262
  - IST 226
  - IST 451
  - IST 454
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: IST 261, IST 311, IST 361, IST 411, IST 412, IST 413
  - Business Applications:
    - ACCTG 211
    - Select 3 credits from: FIN 301, MGMT 301, MKTG 301, SCM 301
    - Select 6 credits, with at least 3 credits at the 400 level from: ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT
  - Cybersecurity:
    - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
  - Security and Risk Analysis:

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

### Business Applications Option: Information Technology, B.S. at 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) <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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>16</b>

#### 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>	4 Advanced IT Selection - Business Option <sup>*</sup>	3
Networking Selection <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
	<b>16</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
Option 3 <sup>*</sup>	3 Option 4 <sup>*</sup>	3
Advanced IT Selection <sup>*</sup>	3 ETI 461 <sup>*</sup>	3
General Education Course (GHW)	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	1
	<b>13</b>	<b>13</b>

#### 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

### 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) <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 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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) <sup>‡</sup>	3
Elective or General Education Course (GN/GA/GH)	3 General Education Course (GN or GA or GH)	3
	<b>16</b>	<b>15</b>

#### 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 General Education Course (GN or GA or GH)	3
Networking Selection <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
General Education Course (GN or GA or GH)	3 Elective	3
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
Option 3 <sup>*</sup>	3 ETI 461 <sup>*</sup>	3
Advanced IT Selection 1 <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 (GHW)	3 Elective	2
	<b>13</b>	<b>14</b>

#### 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.

#### 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 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) <sup>†</sup>	3 MATH 110 or 140 (GQ) <sup>†</sup>	4
CYBER 100 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140 <sup>*#</sup> 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	
	<b>16</b>	<b>16</b>

#### 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) <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
	<b>16</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 IST 260W <sup>*</sup>	3
IST 331 <sup>*</sup>	3 Option 3 <sup>*</sup>	3
Option 2 <sup>*</sup>	3 Business Selection <sup>*</sup>	3
Networking Selection <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
	<b>15</b>	<b>15</b>

#### Fourth Year

Fall	Credits Spring	Credits
IST 495 <sup>*</sup>	1 IST 440W <sup>*</sup>	3
Option 4 <sup>*</sup>	3 ETI 461 <sup>*</sup>	3
Advanced IT Selection 1 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
Advanced IT Selection 2 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3

Elective	3 Elective	2
	<b>13</b>	<b>14</b>

#### 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.

#### 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

## 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 (GN or GA or GH) or Elective	3 General Education Course (GN or GA or GH)	3
Elective or General Education Course (GN/GA/GH)	3	
	<b>16</b>	<b>16</b>

#### 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 PSYCH 100/SOC 5 or PLSC 1/PLSC 14 (GS) <sup>†</sup>	3 IST 230 <sup>*</sup>	3
Business Selection <sup>*</sup>	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
	<b>16</b>	<b>15</b>

#### 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 <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
	<b>15</b>	<b>15</b>

#### 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 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
Option 3 <sup>*</sup>	3 Elective	2
General Education Course (GHW)	3	

Elective	3
	<b>16</b>
	<b>11</b>

#### 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.

#### 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

## 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) <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	
	<b>16</b>	<b>15</b>

#### 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) <sup>‡</sup>	3
SRA 221 <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	<b>17</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 Elective or General Education Course (GN/GA/GH)	3
IST 311 (Option 1) <sup>*</sup>	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
	<b>15</b>	<b>15</b>

#### 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
	<b>13</b>	<b>14</b>

#### 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.

#### Advising Notes:

- Business Selection Courses (cannot double count with other Additional or Option requirements):
  - ACCTG 211
  - BA 100
  - ECON 102
  - ECON 104
  - MGMT 301
  - MKTG 301
- Networking Selection Courses (cannot double count with other Additional or Option requirements):
  - CYBER 262
  - IST 226
  - IST 451
  - IST 454
- Option Courses:
  - Application Development:
    - Select 12 credits, with at least 3 credits at the 400 level from: IST 261, IST 311, IST 361, IST 411, IST 412, IST 413
  - Business Applications:
    - ACCTG 211
    - Select 3 credits from: FIN 301, MGMT 301, MKTG 301, SCM 301
    - Select 6 credits, with at least 3 credits at the 400 level from: ACCTG, BA, BLAW, EBF, ECON, ENTR, FIN, FINSV, HPA, IB, LER, MIS, MGMT, MKTG, RM, SCM, or STAT
  - Cybersecurity:
    - Select 12 credits, with at least 3 credits at the 400 level from: CYBER 262, IST 451, IST 454, IST 456, SRA 472, or any 300 or 400 level CYBER course
  - Security and Risk Analysis:

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

### Business Applications Option: Information Technology, B.S. at 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 <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	
	<b>16</b>	<b>15</b>

#### 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
	<b>17</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 Elective or General Education Course (GN/GA/GH) <sup>*</sup>	3
Networking Selection <sup>*</sup>	3 MKTG 301 <sup>*</sup>	3
ACCTG 211 (Option 1) <sup>*</sup>	4 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
	<b>16</b>	<b>15</b>

#### 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

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

#### 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.

#### 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

### 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

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	
	<b>16</b>	<b>15</b>

#### 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
Elective or General Education Course (GN/GA/GH)	3 ENGL 202C or 202D (GWS) <sup>‡</sup>	3
IST 260W <sup>*</sup>	3 General Education Course (GN or GA or GH)	3
	<b>17</b>	<b>15</b>

#### Third Year

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3
Networking Selection <sup>*</sup>	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
	<b>15</b>	<b>15</b>

#### 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

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

#### 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.

#### 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 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
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	
	<b>16</b>	<b>15</b>

**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
IST 260W <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
	<b>17</b>	<b>15</b>

**Third Year**

Fall	Credits Spring	Credits
IST 302 <sup>*</sup>	3 General Education Course (GN or GA or GH) <sup>*</sup>	3
CYBER 262 (Option 1) <sup>*</sup>	3 MKTG 301 <sup>*</sup>	3
Networking Selection <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
	<b>15</b>	<b>15</b>

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

**Total Credits 120**<sup>‡</sup> Course requires a grade of C or better for General Education

# Course is an Entrance to Major requirement

<sup>†</sup> 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

## Career Paths

With a B.S. degree in Information Technology (IT), students will develop an understanding of core information technologies and prepare for the practical application of IT. The combination of a strong technical foundation, well-developed communication and collaborative skills, business core competencies, and specialization in an area of choice produces graduates who are well-qualified to enter the IT workforce in a position that meets their interests and abilities as well as the needs of employers in industries including consulting, business, government, defense, entertainment, and medicine.

Additional information about IT careers can be found at:

- Computer and Information Technology Occupations: Occupational Outlook Handbook:: U.S. Bureau of Labor Statistics (bls.gov) (<https://www.bls.gov/ooh/computer-and-information-technology/home.htm>)
- IS Job Index – AIS – Temple University Information Systems Job Index (<https://isjobindex.com/>)

## Opportunities for Graduate Studies

A baccalaureate degree in Information Technology prepares students to pursue master's degrees in programs such as information systems or information technology and obtain admission to MBA programs and law schools, among other post-graduate opportunities.

Penn State offers graduate programs related to information technology:

- Master of Science in Information Systems at Penn State Harrisburg (<https://harrisburg.psu.edu/business-administration/information-systems-ms/>)
- Graduate Education Opportunities at College of Information Sciences and Technology (<https://ist.psu.edu/prospective/graduate/>)

## Contact

### Beaver

100 University Dr.  
Monaca, PA 15061  
724-773-3814  
[rkl5137@psu.edu](mailto:rkl5137@psu.edu)

<https://beaver.psu.edu/academics/majors/it> (<https://beaver.psu.edu/academics/majors/it/>)

### Brandywine

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<https://www.brandywine.psu.edu/academics/bachelors-degrees/information-technology> (<https://www.brandywine.psu.edu/academics/bachelors-degrees/information-technology/>)

### DuBois

1 College Place  
DuBois, PA 16823  
814-372-3000  
[jel115@psu.edu](mailto:jel115@psu.edu)

<https://dubois.psu.edu/academics/degrees/IT/bachelor> (<https://dubois.psu.edu/academics/degrees/IT/bachelor/>)

## Greater Allegheny

Frable Building, 201D  
4000 University Drive  
McKeesport, PA 15132  
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<https://greaterallegheny.psu.edu/academics/degree-programs/information-technology> (<https://greaterallegheny.psu.edu/academics/degree-programs/information-technology/>)

## Hazleton

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## Lehigh Valley

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<https://lehighvalley.psu.edu/academics/degrees/information-sciences-and-technology> (<https://lehighvalley.psu.edu/academics/degrees/information-sciences-and-technology/>)

## Mont Alto

006 Bookstore  
1 Campus Drive  
Mont Alto, PA 17237  
717-749-6048  
[ebd5343@psu.edu](mailto:ebd5343@psu.edu)

<https://montalto.psu.edu/academics/bachelors/information-technology> (<https://montalto.psu.edu/academics/bachelors/information-technology/>)

## New Kensington

036 Theater & IST Building  
3550 Seventh Street Road  
New Kensington, PA 15068  
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<https://newkensington.psu.edu/4-year-information-technology> (<https://newkensington.psu.edu/4-year-information-technology/>)

## Schuylkill

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<https://schuylkill.psu.edu/academics/bacc-degrees/information-technology> (<https://schuylkill.psu.edu/academics/bacc-degrees/information-technology/>)

## Scranton

114B Dawson  
120 Ridge View Drive  
Dunmore, PA 18512  
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<https://scranton.psu.edu/academics/degrees/bachelors/information-sciences-technology-degree> (<https://scranton.psu.edu/academics/degrees/bachelors/information-sciences-technology-degree/>)

## Wilkes-Barre

44 University Drive  
Dallas, PA 18612  
570-675-9142  
weifan@psu.edu

<https://wilkesbarre.psu.edu/academics/it> (<https://wilkesbarre.psu.edu/academics/it/>)

## York

1031 Edgecomb Ave.  
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<https://www.york.psu.edu/academics/baccalaureate/information-technology> (<https://www.york.psu.edu/academics/baccalaureate/information-technology/>)

## Abington

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<https://www.abington.psu.edu/academics/majors-at-abington/information-technology> (<https://www.abington.psu.edu/academics/majors-at-abington/information-technology/>)

## Altoona

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610-396-6349  
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<https://berks.psu.edu/academics/baccalaureate-degrees/information-technology> (<https://berks.psu.edu/academics/baccalaureate-degrees/information-technology/>)