

# INFORMATION SCIENCES AND TECHNOLOGY, B.S. (INFORMATION SCIENCES AND TECHNOLOGY)

**Begin Campus:** Abington, Altoona, Berks, Beaver, Brandywine, DuBois, Erie, Fayette, Greater Allegheny, Harrisburg, Hazleton, Lehigh Valley, Mont Alto, New Kensington, Shenango, Schuylkill, University Park, Wilkes-Barre, Scranton, York

**End Campus:** University Park

## Suggested Academic Plan

The suggested academic plan(s) listed on this page are the plan(s) that are in effect during the 2021-22 academic year. To access previous years' suggested academic plans, please visit the archive (<https://bulletins.psu.edu/undergraduate/archive/>) to view the appropriate Undergraduate Bulletin edition (Note: the archive only contain suggested academic plans beginning with the 2018-19 edition of the Undergraduate Bulletin).

### Design and Development Option: Information Sciences and Technology, B.S. at University Park 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
IST 140 or CMPSC 121 <sup>*#</sup>	3 IST 220 <sup>*#</sup>	3
MATH 110 or 140 <sup>*‡</sup>	4 CAS 100 <sup>†</sup>	3
World Language Level 1	4 ENGL 15, 30H, or ESL 15 <sup>‡</sup>	3
	World Language Level 2	4
<b>14</b>		<b>16</b>

#### Second Year

Fall	Credits Spring	Credits
IST 230 <sup>*</sup>	3 Support of Option	3
IST 242 <sup>*</sup>	3 STAT 200 <sup>‡</sup>	4
ECON 102 or 104 <sup>*</sup>	3 General Education Course (GHW, GN, GA, or GS)	3

General Education Course (GHW, GN, GA, or GS)	3 General Education Course (GHW, GN, GA, or GS)	3
World Language Level 3	4 General Education Course (GHW, GN, GA, or GS)	3

**16** **16**

#### Third Year

Fall	Credits Spring	Credits Summer	Credits
IST 311 <sup>*</sup>	3 IST 261 or 361 <sup>*</sup>	3 IST 495 <sup>*1</sup>	1
IST 331 <sup>*</sup>	3 General Education Course (GHW, GN, GA, or GS)	3	
Support of Option	3 IST 301 <sup>*</sup>	3	
General Education Course (GHW, GN, GA, or GS)	3 Foreign Culture (IL)	3	
General Education Course (GHW, GN, GA, or GS)	3 ENGL 202C or 202D <sup>‡</sup>	3	

**15** **15** **1**

#### Fourth Year

Fall	Credits Spring	Credits
IST 402	3 IST 440W <sup>*</sup>	3
IST 411, 412, or 413 <sup>*</sup>	3 IST 411, 412, or 413 <sup>*</sup>	3
General Education Course (GHW, GN, GA, or GS)	3 Support of Option 400 Level	3
Foreign Culture (IL)	3 US Cultures or Elective	3
Elective	3 General Education Course (GHW, GN, GA, or GS)	3
Elective	2	
<b>17</b>		<b>15</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

<sup>1</sup> 1 credit of IST 495 is required. A grade of C or better must be earned in this course. This requirement can be completed at any time before graduation.

#### University Requirements and General Education Notes:

US and IL are abbreviations used to designate courses that satisfy University 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.

GWS, GQ, GHW, GN, GA, GH, and GS are abbreviations used to identify General Education program courses. General Education includes Foundations (GWS and GQ) and Knowledge Domains (GHW, GN, GA, GH, GS, and Integrative Studies). Foundations courses (GWS and GQ) require a grade of 'C' or better.

Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

All incoming Schreyer Honors College first-year students at University Park will take ENGL 137H/CAS 137H in the fall semester and ENGL 138T/CAS 138T in the spring semester. These courses carry the GWS designation and replace both ENGL 30H and CAS 100. Each course is 3 credits.

**Advising Notes:**

- IST courses have enforced prerequisites.

## Integration and Application Option: Information Sciences and Technology, B.S. at University Park Campus

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### First Year

Fall	Credits Spring	Credits
IST 110 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140, CMPSC 101, or CMPSC 121 <sup>*#</sup>	3 ECON 102 or 104 <sup>*</sup>	3
MATH 110 or 140 <sup>*‡</sup>	4 ENGL 15, 30H, or ESL 15 <sup>‡</sup>	3
World Language Level 1	4 General Education Course (GHW, GN, GA, or GS)	3
General Education Course (GHW, GN, GA, or GS)	3 World Language Level 2	4
	<b>17</b>	<b>16</b>

### Second Year

Fall	Credits Spring	Credits
IST 220 <sup>*#</sup>	3 IST 240 or 242 <sup>*</sup>	3
IST 230 <sup>*</sup>	3 STAT 200 <sup>‡</sup>	4
World Language Level 3	4 CAS 100 <sup>‡</sup>	3
General Education Course (GHW, GN, GA, or GS)	3 General Education Course (GHW, GN, GA, or GS)	3
General Education Course (GHW, GN, GA, or GS)	3 General Education Course (GHW, GN, GA, or GS)	3
	<b>16</b>	<b>16</b>

### Third Year

Fall	Credits Spring	Credits Summer	Credits
IST 301 <sup>*</sup>	3 IST 331 <sup>*</sup>	3 IST 495 <sup>*1</sup>	1
IST 302 <sup>*</sup>	3 IST 420 <sup>*</sup>	3	
Support of Option	3 ENGL 202C or 202D <sup>‡</sup>	3	
Elective	3 Foreign Culture (IL)	3	
General Education Course (GHW, GN, GA, or GS)	3 Support of Option	3	
	<b>15</b>	<b>15</b>	<b>1</b>

### Fourth Year

Fall	Credits Spring	Credits
IST 402	3 IST 440W <sup>*</sup>	3
IST 421 <sup>*</sup>	3 Support of Option 400 Level	3
Support of Option	3 General Education Course (GHW, GN, GA, or GS)	3
Foreign Cultures (IL)	3 US Cultures or Elective	3
General Education Course (GHW, GN, GA, or GS)	3 Elective	2
	<b>15</b>	<b>14</b>

### Total Credits 125

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- <sup>1</sup> 1 credit of IST 495 is required. A grade of C or better must be earned in this course. This requirement can be completed at any time before graduation.

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Integrative Studies courses are required for the General Education program. N is the suffix at the end of a course number used to designate an Inter-Domain course and Z is the suffix at the end of a course number used to designate a Linked course.

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### Advising Notes:

- IST courses have enforced prerequisites.

## People, Organizations, and Society Option: Information Sciences and Technology, B.S. at University Park Campus

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### First Year

Fall	Credits Spring	Credits
IST 110 <sup>*#</sup>	3 IST 210 <sup>*#</sup>	3
IST 140, CMPSC 101, or CMPSC 121 <sup>*#</sup>	3 ECON 102 or 104 <sup>*</sup>	3
MATH 110 or 140 <sup>*†</sup>	4 ENGL 15, 30H, or ESL 15 <sup>‡</sup>	3
World Language Level 1	4 General Education Course (GHW, GN, GA, or GS)	3
General Education Course (GHW, GN, GA, or GS)	3 World Language Level 2	4
	<b>17</b>	<b>16</b>

### Second Year

Fall	Credits Spring	Credits
IST 220 <sup>*</sup>	3 IST 240 or 242	3
IST 230 <sup>*</sup>	3 STAT 200 <sup>‡</sup>	4
World Language Level 3	4 CAS 100 <sup>‡</sup>	3
General Education Course (GHW, GN, GA, or GS)	3 General Education Course (GHW, GN, GA, or GS)	3
General Education Course (GHW, GN, GA, or GS)	3 General Education Course (GHW, GN, GA, or GS)	3
	<b>16</b>	<b>16</b>

### Third Year

Fall	Credits Spring	Credits Summer	Credits
IST 301 <sup>*</sup>	3 IST 431 <sup>*</sup>	3 IST 495 <sup>*1</sup>	1
IST 331 <sup>*</sup>	3 IST 302 or 413	3	
Support of Option	3 ENGL 202C or 202D <sup>‡</sup>	3	
Elective	3 Foreign Culture (IL)	3	
General Education Course (GHW, GN, GA, or GS)	3 Support of Option	3	
	<b>15</b>	<b>15</b>	<b>1</b>

### Fourth Year

Fall	Credits Spring	Credits
IST 402	3 IST 440W <sup>*</sup>	3
IST 432 <sup>*</sup>	3 Support of Option 400 Level	3
Support of Option	3 General Education Course (GHW, GN, GA, or GS)	3
Foreign Cultures (IL)	3 US Cultures or Elective	3
General Education Course (GHW, GN, GA, or GS)	3 Elective	2
	<b>15</b>	<b>14</b>

### Total Credits 125

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# Course is an Entrance to Major requirement

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