INFORMATION SCIENCES AND TECHNOLOGY, A.S. (BERKS)

Begin Campus: Berks
End Campus: Berks

Program Description
Not all options are available at every campus. Contact the campus you are interested in attending to determine which options are offered.

This associate degree major is structured to prepare graduates for immediate and continuing employment opportunities in the broad disciplines of information science and technology. This includes positions such as application programmers, associate systems designers, network managers, web designers and administrators, or information systems support specialists. Specifically, the major is designed to ensure a thorough knowledge of information systems and includes extensive practice using contemporary technologies in the creation, organization, storage, analysis, evaluation, communication, and transmission of information. The major fosters communications, interpersonal, and group interaction skills through appropriate collaborative and active learning projects and experiences. Technical material covers the structure of database systems, web and multimedia systems, and considerations in the design of information systems. Team projects in most courses, a required internship, and a second-year capstone experience provide additional, focused venues for involving students in the cutting-edge issues and technologies in the field.

The Associate of Science in IST degree will be offered at multiple campuses within the Penn State System of colleges and campuses. Note that not all options will be available at all locations.

Baccalaureate Option
Available at the following campuses: Berks, DuBois, Greater Allegheny, Mont Alto, New Kensington, Scranton, University Park, Wilkes-Barre, World Campus, York

This option provides maximum articulation with the baccalaureate degree. Students who complete this option will meet all lower division requirements for the baccalaureate degree. This is not the case with the remaining options, although the degree of articulation is quite high for all associate degree options.

Generalized Business Option
Available at the following campuses: Berks, DuBois, Hazleton, Mont Alto, New Kensington, Scranton, University Park, Wilkes-Barre, World Campus, York

This option enables students to specialize in the general business areas of accounting, marketing, and management.

Individualized Option
Available at the following campuses: Berks, Greater Allegheny, Hazleton, Mont Alto, New Kensington, Scranton, University Park, Wilkes-Barre, World Campus, York

This option enables students to work closely with an adviser to develop a plan of study that meets the dual objectives of allowing a flexible academic program and providing breadth of technical specialization. An example would be a program where a student would take some of the courses listed in the Web Administration option and the remainder in the Software option.

Networking Option
Available at the following campuses: DuBois, Mont Alto, Shenango, World Campus, York

This option prepares graduates for positions as entry-level computer network administrators. Students take courses in personal computer hardware, networking essentials, and network administration.

Entrance to Major
Students must have a minimum 2.0 GPA to change to this Associate degree after admission to the University.

Degree Requirements
For the Associate in Science degree in Information Sciences and Technology, a minimum of 60 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>21</td>
</tr>
<tr>
<td>Electives</td>
<td>4-7</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>44-46</td>
</tr>
</tbody>
</table>

9-12 of the 21 credits for General Education are included in the Requirements for the Major. For all options, this includes: 3 credits of GQ courses; 6 credits of GWS courses. The Baccalaureate Option also includes 3 credits of GS courses to equal a total of 12 credits that double count; the General Business Option also includes 0-3 credits of GS courses to equal 9-12 credits that double count.

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 (http://bulletins.psu.edu/undergraduate/general-education/associate-degree-general-education-program) section of the Bulletin and consult your academic adviser.

Foundations (grade of C or better is required.)
- Quantification (GQ): 3 credits
- Writing and Speaking (GWS): 3 credits

Knowledge Domains
- Arts (GA): 3 credits
- Humanities (GH): 3 credits
- Social and Behavioral Sciences (GS): 3 credits
- Natural Sciences (GN): 3 credits

Foundations or Knowledge Domains
- A General Education course selected from GWS, GQ, GN, GA, GH, or GS, and may include Integrative Studies (Inter-domain or Linked) courses: 3 credits
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.

### University Degree Requirements

#### Cultures Requirement
3 credits of United States (US) or International (IL) cultures coursework are required and may satisfy other requirements.

#### 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 60 degree credits must be earned for a associates degree. The requirements for some programs may exceed 60 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
Credit used toward degree programs may need to be earned from a particular source or within time constraints (see Senate Policy 83-80). For more information, check the Suggested Academic Plan for your intended program.

#### 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 (http://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.

### Requirements for the Option

#### Baccalaureate Option (17 credits)
Available at the following campuses: Berks, DuBois, Greater Allegheny, Mont Alto, New Kensington, Scranton, University Park, Wilkes-Barre, World Campus, York

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td>3</td>
</tr>
<tr>
<td>STAT 200</td>
<td>Elementary Statistics</td>
<td>4</td>
</tr>
</tbody>
</table>

**Prescribed Courses: Require a grade of C or better**

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<tr>
<th>Code</th>
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</thead>
<tbody>
<tr>
<td>IST 230</td>
<td>Language, Logic, and Discrete Mathematics and Introduction to Computer Languages</td>
<td>6</td>
</tr>
</tbody>
</table>

**Additional Courses**

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<tr>
<th>Code</th>
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</tr>
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<tbody>
<tr>
<td>MATH 110</td>
<td>Techniques of Calculus I</td>
<td>4</td>
</tr>
<tr>
<td>or MATH 140</td>
<td>Calculus With Analytic Geometry I</td>
<td></td>
</tr>
</tbody>
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**Generalized Business Option (15-16 credits)**
Available at the following campuses: Berks, DuBois, Hazleton, Mont Alto, New Kensington, Scranton, University Park, World Campus, York

Select 15 credits in consultation with the adviser from the following list:

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<thead>
<tr>
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<tbody>
<tr>
<td>ACCTG 151</td>
<td>Introductory Financial Accounting I</td>
<td></td>
</tr>
<tr>
<td>ACCTG 152</td>
<td>Introductory Financial Accounting II</td>
<td></td>
</tr>
<tr>
<td>ACCTG 211</td>
<td>Financial and Managerial Accounting for Decision Making</td>
<td></td>
</tr>
<tr>
<td>BA 250</td>
<td>Small Business Management</td>
<td></td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td></td>
</tr>
<tr>
<td>or ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
<td></td>
</tr>
<tr>
<td>or ECON 14</td>
<td>Principles of Economics</td>
<td></td>
</tr>
<tr>
<td>MATH 17</td>
<td>Finite Mathematics</td>
<td></td>
</tr>
<tr>
<td>or MATH 21</td>
<td>College Algebra I</td>
<td></td>
</tr>
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<td>College Algebra II and Analytic Geometry</td>
<td></td>
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<td>or MATH 26</td>
<td>Plane Trigonometry</td>
<td></td>
</tr>
<tr>
<td>MGMT 100</td>
<td>Survey of Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 150</td>
<td>Supervisory Management</td>
<td></td>
</tr>
<tr>
<td>MGMT 321</td>
<td>Leadership and Motivation</td>
<td></td>
</tr>
<tr>
<td>MGMT 341</td>
<td>Human Resource Management</td>
<td></td>
</tr>
<tr>
<td>MKTG 220</td>
<td>Introduction to Selling Techniques</td>
<td></td>
</tr>
<tr>
<td>MKTG 221</td>
<td>Contemporary American Marketing</td>
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</tr>
<tr>
<td>MKTG 310</td>
<td>Public Relations and Marketing</td>
<td></td>
</tr>
<tr>
<td>MKTG 327</td>
<td>Retailing</td>
<td></td>
</tr>
<tr>
<td>MATH 14</td>
<td>Introductory Analysis and Design</td>
<td></td>
</tr>
<tr>
<td>or MATH 21</td>
<td>College Algebra I</td>
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**Individualized Option (15 credits)**
Available at the following campuses: Berks, Greater Allegheny, Hazleton, Mont Alto, New Kensington, Scranton, University Park, Wilkes-Barre, World Campus, York

**Supporting Courses and Related Areas**

Select an option

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

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<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IST 295A</td>
<td>Distributed Team Project</td>
<td>1</td>
</tr>
<tr>
<td>or IST 295B</td>
<td>IST Internship</td>
<td></td>
</tr>
</tbody>
</table>
Select 15 credits in consultation with an adviser that follow a coherent theme in information sciences and technology with a grade of C or better required for all IST courses.

### Networking Option (15 credits)

*Available at the following campuses: DuBois, Mont Alto, Shenango, World Campus, York*

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<th>Code</th>
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</thead>
<tbody>
<tr>
<td>IST 225</td>
<td>PC Hardware Basics</td>
<td>3</td>
</tr>
<tr>
<td>IST 226</td>
<td>Networking Essentials</td>
<td>3</td>
</tr>
<tr>
<td>IST 227</td>
<td>Network Administration</td>
<td>3</td>
</tr>
<tr>
<td>IST 228</td>
<td>Advanced Network Administration</td>
<td>3</td>
</tr>
</tbody>
</table>

### Additional Courses

Select one of the following:

- MATH 17 Finite Mathematics
- MATH 21 College Algebra I
- MATH 22 College Algebra II and Analytic Geometry
- MATH 26 Plane Trigonometry

### Program Learning Objectives

1. **Know the System Development Lifecycle (SDL):** Demonstrate knowledge of the SDL by applying its methods to network projects and various networking hand-on lab exercises.

2. **Know Networking Systems and Industry Methods:** Demonstrate ability to apply various industry standards in networking, server maintenance, and hardware standards.

3. **Use Information Sciences Theory/Practice:** Use management theory and information technology processes in managing networks. Which includes best practices for network and infrastructure design, development, and implementation.

4. **Manage Network Systems:** Demonstrate knowledge of designing and management various networking systems.

5. **Know Security Risk Factors:** Demonstrate knowledge technology risk factors for networks, servers, various hardware components and their impact on technology systems. Having the ability to secure various networks, using the latest industry standards and best practices, design, develop, and implement (i.e. securing hardware, software compliance, etc.).

### 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 (http://senate.psu.edu/policies-and-rules-for-undergraduate-students/32-00-advising-policy)

### Berks

**Tricia Clark**  
Program Coordinator, Instructor  
Gaige 211  
Reading, PA 19610  
610-396-6349  
tkc3@psu.edu

### DuBois

**Jason Long**  
Assistant Teaching Professor  
1 College Place  
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### Hazleton

**Barbara Brazon**  
Assistant Teaching Professor of Information Sciences and Technology  
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570-450-3089  
bxb30@psu.edu

### Mont Alto

**Paul Bart**  
Lecturer, IST  
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717-749-6241  
pjb159@psu.edu

### Scranton

**Debra Smarkusky**  
Associate Professor  
212F Dawson  
Dunmore, PA 18512  
570-963-2593  
dls102@psu.edu

### University Park

**Office of Undergraduate Academic Advising**  
E103 Westgate Building  
University Park, PA 16802  
814-865-8947  
advising@ist.psu.edu

### Wilkes-Barre

**Wei-Fan Chen**  
Program Co-Coordinator, IST  
P.O. Box 264  
Lehman, PA 18627  
570-675-9142  
weifan@psu.edu

### World Campus

**Undergraduate Academic Advising**  
301 Outreach Building
basis to develop and refine an academic plan that is appropriate for you.

Academic Requirements

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.

### Baccalaureate Option at Berks Campus

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

#### First Year

<table>
<thead>
<tr>
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</tr>
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<tbody>
<tr>
<td>ENGL 15 or 30†</td>
<td>3</td>
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<tr>
<td>IST 110*</td>
<td>3</td>
<td>IST 210*</td>
<td>3</td>
</tr>
<tr>
<td>IST 111S*</td>
<td>1</td>
<td>MATH 110 or 140</td>
<td>4</td>
</tr>
<tr>
<td>IST 250*</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>IST 140 or CMPSC 101†</td>
<td>3</td>
<td>Elective</td>
<td>2</td>
</tr>
</tbody>
</table>

**General Education Course**

16

#### Second Year

<table>
<thead>
<tr>
<th>Fall</th>
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<td>IST 220*</td>
<td>3</td>
<td>ENGL 202C or 202D</td>
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<tr>
<td>SCM 200 or STAT 200</td>
<td>4</td>
<td>IST 295A or 295B (Students may wish to enroll in the course over the summer. Students interested in pursuing either the B.A. or B.S. in Information Sciences &amp; Technology degree should consider IST 495. Consult adviser for details.)</td>
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<tr>
<td>IST 230*</td>
<td>3</td>
<td>IST 240 or 242*</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102†</td>
<td>3</td>
<td>IST 260 (Course fulfills the Writing Across The Curriculum Requirement).*</td>
<td>3</td>
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### General Education Course

3 Elective

16

13

Total Credits 60

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

1 The following courses are offered Fall Semester only: IST 240, 245.
2 The following courses are offered Spring Semester only: IST 242, 260.

### Generalized Business Option at Berks Campus

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

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William Cantor
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York

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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 2019-20 academic year. To access previous years’ suggested academic plans, please visit the archive (http://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).

Baccalaureate Option at Berks Campus

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2 The following courses are offered Spring Semester only: IST 242, 260.
### Individualized Option at Berks Campus

The course series listed below provides only one of the many possible ways to move through this curriculum. The University may make changes in policies, procedures, educational offerings, and requirements at any time. This plan should be used in conjunction with your degree audit (accessible in LionPATH as either an Academic Requirements or What If report). Please consult with a Penn State academic adviser on a regular basis to develop and refine an academic plan that is appropriate for you.

#### First Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENGL 15 or 30†</td>
<td>3</td>
<td>CAS 100B (CAS 100A may be substituted with Dean's approval. Consult adviser for details.)</td>
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<td>IST 110*</td>
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<td>IST 210*</td>
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<td>IST 111S*</td>
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<td>Option Requirement*</td>
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<td>IST 250*</td>
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<td>Option Requirement*</td>
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<tr>
<td>IST 140 or CMPSC 101†</td>
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<td>General Education Course</td>
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#### Second Year

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<th>Fall</th>
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<tr>
<td>IST 220*</td>
<td>3</td>
<td>ENGL 202C or 202D</td>
<td>3</td>
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</tbody>
</table>

### Contact

#### Berks

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Gaige Building  
Reading, PA 19610  
610-396-6349  
tkc3@psu.edu  
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