INFORMATION SYSTEMS, B.S.

Begin Campus: Any Penn State Campus

End Campus: Harrisburg

Degree Requirements
For the Bachelor of Science degree in Information Systems, a minimum of 121 credits is required:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>94</td>
</tr>
</tbody>
</table>

18 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 9 credits of GWS courses; 3 credits of GS courses; 6 credits of GQ courses.

Consistent with Senate policy, at least 24 credits of coursework in the major and the capstone course must be completed at the Capital College to earn the degree.

Senate Policy 83-80.5 stipulates that the college dean and program faculty may require up to 24 credits of coursework in the major to be taken in the college where the degree is earned. Based on this policy, the School of Business Administration has set the following credit earning limitations for INFSY_BS majors:

1. Twenty-one credits of 300/400 level prescribed and additional courses in the major field must be completed at Harrisburg.
2. Six additional credits of 300/400 level supporting courses must also be completed at Harrisburg. See the Information Systems Suggested Academic Plan for details.

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/#82-44).

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 307</td>
<td>Algorithmic Concepts</td>
<td>3</td>
</tr>
<tr>
<td>MIS 390</td>
<td>Information Systems Management and Applications</td>
<td>3</td>
</tr>
<tr>
<td>MIS 420</td>
<td>Business Process Management</td>
<td>3</td>
</tr>
<tr>
<td>MIS 431</td>
<td>Business Data Management</td>
<td>3</td>
</tr>
<tr>
<td>MIS 446</td>
<td>Information Technology and Business Strategy</td>
<td>3</td>
</tr>
<tr>
<td>MIS 450</td>
<td>System Design Project</td>
<td>3</td>
</tr>
<tr>
<td>MIS 495</td>
<td>Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

Additional Courses
BA 241 & BA 242 Legal Environment of Business and Social and Ethical Environment of Business 4
or BA 243 Social, Legal, and Ethical Environment of Business 4

Additional Courses: Require a grade of C or better
MATH 110 or MATH 140 Techniques of Calculus I Calculus With Analytic Geometry I 4
MIS 204 Introduction to Management Information Systems 3
or MIS 250 Introduction to Problem Solving with Spreadsheet Analysis and Information Systems Management
SCM 200 Introduction to Statistics for Business 4
or STAT 200 Elementary Statistics 4

Select 3 credits from the following:

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGL 15</td>
<td>Rhetoric and Composition</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 30H</td>
<td>Honors Rhetoric and Composition</td>
<td></td>
</tr>
<tr>
<td>ESL 15</td>
<td>ESL Composition for American Academic Communication II</td>
<td></td>
</tr>
</tbody>
</table>

Select 9 credits from one of the following three areas of concentration A, B, C, or D. At least one course must be at the 400-level:

A. Systems Design Concentration
MGMT 410 Project Management
MIS 391 E-Commerce Strategies
MIS 413 Interface design for Information Systems Applications
MIS 461 Web Technologies
MIS 466 Business Programming for the WEB
MIS 489 Seminar in Information Systems

B. Data and Business Analytics Concentration
MIS 315 Python Programming
DS 200 Introduction to Data Sciences
STAT 184 Introduction to R
STAT 380 Data Science Through Statistical Reasoning and Computation
MIS 441 Business Intelligence for Decision Making
MIS 461 Web Technologies

C. Computing Security Concentration
IST 454 Computer and Cyber Forensics
MIS 448 Business Telecommunications
SRA 111 Introduction to Security and Risk Analysis
SRA 221 Overview of Information Security
SRA 472 Integration of Privacy and Security

D. Individualized Concentration
Course selections completed in consultation with an adviser

Supporting Courses and Related Areas
Select 6 credits from 200-400 level business courses from: ACCTG, BA, ECON, FIN, MGMT, MIS, MKTG, or SCM in consultation with an academic adviser and in support of the student’s interests

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

Knowledge Domains
- Arts (GA): 6 credits
- Health and Wellness (GHW): 3 credits
- Humanities (GH): 6 credits
- Social and Behavioral Sciences (GS): 6 credits
- Natural Sciences (GN): 9 credits

Integrative Studies (may also complete a Knowledge Domain requirement)
- Inter-Domain or Approved Linked Courses: 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 (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.