

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:

Requirement	Credits
General Education	45
Requirements for the Major	94

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:

- Twenty-one credits of 300/400 level prescribed and additional courses in the major field must be completed at Harrisburg.
- 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 (<https://senate.psu.edu/policies-and-rules-for-undergraduate-students/82-00-and-83-00-degree-requirements/#82-44>).

Code	Title	Credits
Prescribed Courses		
ACCTG 211	Financial and Managerial Accounting for Decision Making	4
BA 364Y	International Business and Society	3
BA 462	Business Strategy	3
ECON 102	Introductory Microeconomic Analysis and Policy	3
ECON 104	Introductory Macroeconomic Analysis and Policy	3
FIN 301	Corporation Finance	3
MGMT 301	Basic Management Concepts	3
MKTG 301	Principles of Marketing	3
SCM 301	Supply Chain Management	3
<i>Prescribed Courses: Require a grade of C or better</i>		
CAS 100	Effective Speech	3
ENGL 202D	Effective Writing: Business Writing	3
IST 140	Introduction to Application Development	3
MIS 301	Business Analytics	3

MIS 307	Object-Oriented Programming and Application Development	3
MIS 390	Information Systems Management and Applications	3
MIS 420	Business Process Management	3
MIS 431	Business Data Management	3
MIS 446	Information Technology and Business Strategy	3
MIS 450	System Design Project	3
MIS 495	Internship	3

Additional Courses

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

Additional Courses: Require a grade of C or better

MATH 110	Techniques of Calculus I	4
or MATH 140	Calculus With Analytic Geometry I	

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	

Select 3 credits from the following: 3

ENGL 15	Rhetoric and Composition	
ENGL 30H	Honors Rhetoric and Composition	
ESL 15	ESL Composition for American Academic Communication II	

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: 9

A. Systems Design Concentration

MGMT 410	Project Management	
MIS 391		
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 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.