

## Master of Science in Information Systems

The Master of Science in Information Systems (MSIS) is a STEM-designated program that equips students with advanced technical, managerial, and analytical competencies required to strategize, plan, design, and manage strategic IT initiatives that enable an organization to achieve strategic business objectives and create a competitive advantage.

A STEM-designated degree allows eligible graduates an Optional Practical Training (OPT) extension for up to 36 months, helping graduates gain additional real-world skills and experiences.

The MSIS is highly flexible to accommodate both full- and part-time students. To provide flexibility for students, some courses are also offered online or in a hybrid format (i.e., a blend of resident instruction and online). Students should contact the program office for information on specific semester course offerings.

Recent MSIS graduates have been employed by top organizations across the region and United States such as Deloitte, Gusto, KPMG, Oracle, PwC, SiriusXM, ServiceNow, State Farm, and TE Connectivity.

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**PennState**  
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**School of Business  
Administration**



## Curriculum

### Degree Requirements

Requirements listed here are in addition to requirements stated in the [Degree Requirements](#) section of the *Graduate Bulletin*.

The M.S.I.S. degree program requires, excluding pre-program requirements, 30 credits of course work at the 500 or 800 level, with a minimum of 18 credits at the 500 level. The M.S.I.S. degree requires 9 credits of prescribed courses:

- INFSY 535 Object-Oriented Design and Program Development in Business (3)
- INFSY 540 Information Technology and Knowledge Management (3)
- INFSY 554 Master's Project (3)

Students are also required to take 15 credits of Information Systems courses from an approved list available in the program office. Students also must take 6 credits of electives from the 500-level courses offered by Penn State Harrisburg's School of Business Administration. The INFSY 554 Master's Project course involves development of an original master's project in the student's field of interest and preparation of a scholarly paper.

**Data Analytics Track:** The objective of this Track is to provide the student with data analytical skills that enable them to gain data insights and transform data into strategic decisions.

In consultation with their adviser, a student in this Track shall select 9 credits from the following:

- BUS 510 Business Analytics and Decision Modeling (3)
- INFSY 555 Data Management Systems (3)
- INFSY 556 Data Warehousing (3)
- INFSY 565 Intelligent Systems in Business (3)
- INFSY 566 Data Mining and Knowledge Discovery (3)
- INFSY 547 Web Enabled Technologies (3)

### Entry Requirements

- Analytic Skills Requirement
- Computer Skills Requirement
- Communication Skills Requirement
- Pre-program requirement

Visit for complete details.

## Courses

### Transfer Credits and Course Substitutions

#### Transfer Credits

Penn State allows a maximum of 10 transfer credits of high-quality graduate work to be applied toward the requirements for a graduate degree, subject to restrictions outlined in the [Transfer Courses](#) section of the *Graduate Bulletin*. It must be the opinion of the reviewing faculty that these courses are equivalent in quality to those offered at Penn State Harrisburg. Credit will not be given for any class used to complete a previous degree.

#### Course Substitutions

Because some students enter the Program with advanced knowledge in one or more subject areas, up to six credits in prescribed or additional courses may be replaced with more advanced graduate courses in the same subject area. Except for INFSY 554, which must be taken at the College, INFSY prescribed and additional courses, in cases where there is equivalent knowledge, must be replaced with more advanced courses in the same field. Substitutions are based on a minimum of six credits of advanced undergraduate course work in an area of concentration or credits earned in an equivalent graduate-level program at a regionally accredited, college-level institution. These courses must have been completed within the past five years and have earned a grade of B or better. Substituted courses must be replaced with other advanced graduate courses in the field for which the substitute is the foundation/prerequisite. Substitutions are based on past academic performance. An examination cannot be used for earned graduate course credit.

### Grade-Point Average and Time Limit

A 3.00 (out of 4.00) minimum grade-point average is required for the award of the M.S.I.S. degree. All course work must be completed within eight years of admission to degree status.

## Program Requirements for Admission

Requirements	More Information
GPA	Decisions are based primarily on undergraduate junior-senior grade-point average and the Graduate Management Admissions Test (GMAT) scores or Graduate Record Exam (GRE) scores.
Supporting Materials	<ul style="list-style-type: none"><li>✓ <a href="#">GMAT</a> or <a href="#">GRE</a> test scores (the test must have been taken within the past five years)</li><li>✓ letters of recommendation</li><li>✓ A copy of official transcripts (email to: <a href="mailto:hbg-gradadmit@lists.psu.edu">hbg-gradadmit@lists.psu.edu</a>)</li></ul>

Post-baccalaureate coursework, professional experience, and the statements provided in the application are also taken into account.

### Deadline for Application

Semester	Deadline
Fall	May 31
Spring	September 30
Summer	February 28

To be considered for a graduate assistantship, applicants must submit a complete application by March 1.