MANAGEMENT INFORMATION SYSTEMS, B.S. (BUSINESS)

Begin Campus: Any Penn State Campus
End Campus: University Park

Program Description

The Management Information Systems major focuses on IT-supported techniques for exploring, analyzing, integrating, and reporting business data to facilitate fact-based decisions and enterprise-wide management. The framework encompasses the concepts, principles, and methods for (1) collecting, transforming, and managing data, (2) doing business analytics, (3) communicating and sharing the results, (4) aligning IT-enabled business analytics with business strategy.

Students in this major have the opportunity to take nine credits of supporting work in functional business areas such as accounting, finance, marketing, risk management, and supply chain management. Graduates develop cross-functional literacy in how techniques and technologies help achieve business objectives, along with competency in applying business analytics methods on behalf of the business and in a supporting business area. Thus, graduates are well-prepared for careers in industry, consulting, and government sectors as business analytics professionals.

More information about the broad range of career opportunities is available at http://www.smeal.psu.edu/scis/recruit (http://www.smeal.psu.edu/scis/recruit).

What is Management Information Systems?

Management Information Systems lie at the intersection of business intelligence and computer programming. MIS managers apply information technology in ways that improve the efficiency and effectiveness of organizational decision-making and enterprise-wide management. This ability to save an organization time, money, and frustration by harnessing the usefulness of big data positions MIS managers to become valued members of a leadership team.

Entrance to Major

To be eligible for entrance into the Management Information Systems (MIS) major, a degree candidate must be enrolled in the Smeal College of Business or the Division of Undergraduate Studies and satisfy requirements for entrance to the major.

This program currently has administrative enrollment controls. Administrative Enrollment Controls are initiated when limitations of space, faculty, or other resources in a major prevent accommodating all students who request them. Students must follow the administrative enrollment controls that are in effect for the semester that they enter the university.

First-Year Students Entering Summer 2019, Fall 2019, Spring 2020

In order to be eligible for entrance to this major, students must satisfy the following requirements:

- 40-59 graded Penn State credits (excludes transfer and AP credits)
- completed with a grade of C or better: ESL 15 or ENGL 15 or ENGL 30, ACCTG 211*, FIN 301*, MATH 110 or MATH 140, MGMT 301*, MKTG 301*, and SCM 200 or STAT 200
- completed ECON 102
- earned a minimum grade-point average (GPA) of 3.10 in the eight entrance-to-major courses listed above
- earned a minimum of 3.10 cumulative GPA

* Must be completed at Penn State (no substitutions or transfers)

Students Who Entered Prior to Summer 2019

Students who entered the University during Summer 2018, Fall 2018, and Spring 2019 should view the administrative enrollment controls in the archived 2018-19 Undergraduate Bulletin (http://bulletins.psu.edu/archive/2018-19/undergraduate/general-information/academic-information/#administrativeenrollmentcontrolstext). Students who entered the University prior to the summer 2018 semester should view the administrative enrollment controls for the semester that they entered the university (http://advising.psu.edu/entrance-major-requirements) on the Academic Advising Portal.

Degree Completion

Students accepted into the Management Information Systems major are expected to enroll at University Park the fall semester after gaining entrance to the major. In addition, Senate Policy 83-80.5 stipulates that the college dean and program faculty may require up to 24 credits of course work in the major to be taken in the college where the degree is earned. Based on this policy, the Smeal College of Business has set the following credit earning limitations for MIS majors:

1. Eighteen credits of 300/400 level prescribed and additional courses in the major field must be completed with Management Information Systems faculty at University Park.
2. Six additional credits of 300/400 level related and supporting courses must also be completed at University Park. See the Management Information Systems Suggested Academic Plan for details.

Degree Requirements

For the Bachelor of Science degree in Management Information Systems, a minimum of 120 credits is required with at least 15 credits at the 400 level:

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Education</td>
<td>45</td>
</tr>
<tr>
<td>Electives</td>
<td>14</td>
</tr>
<tr>
<td>Requirements for the Major</td>
<td>73</td>
</tr>
</tbody>
</table>

12 of the 45 credits for General Education are included in the Requirements for the Major. This includes: 3 credits of GWS courses (ENGL 202D); 6 credits of GQ courses (MATH 110 or MATH 140 and SCM 200 or STAT 200); 3 credits of GS courses (ECON 102).

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/baccalaureate-degree-general-education-program) section of the Bulletin and consult your academic adviser.

The college dean or campus chancellor and program faculty may require

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.

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>BA 342</td>
<td>Socially Responsible, Sustainable and Ethical Business Practice</td>
<td>3</td>
</tr>
<tr>
<td>BA 411</td>
<td>Analyzing Business and Industry</td>
<td>3</td>
</tr>
<tr>
<td>BLAW 341</td>
<td>Business Law I: Introduction to Contracts, Liability Issues, and Intellectual Property</td>
<td>3</td>
</tr>
<tr>
<td>ECON 102</td>
<td>Introductory Microeconomic Analysis and Policy</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>Introductory Macroeconomic Analysis and Policy</td>
<td>3</td>
</tr>
<tr>
<td>SCM 301</td>
<td>Supply Chain Management</td>
<td>3</td>
</tr>
</tbody>
</table>

Prescribed Courses: Require a grade of C or better

ACCTG 211  Financial and Managerial Accounting for Decision Making 4
ENGL 202D  Effective Writing: Business Writing 3
FIN 301  Corporation Finance 3
MGMT 301  Basic Management Concepts 3
MIS 250  Introduction to Problem Solving with Spreadsheet Analysis and Information Systems Management 3
MIS 301  Business Analytics 3
MIS 431  Business Data Management 3
MIS 432  Business Information System Analysis 3
MIS 441  Business Intelligence for Decision Making 3
MIS 446  Information Technology and Business Strategy 3
MIS 479  Enterprise Information Systems 3
MKTG 301  Principles of Marketing 3

Additional Courses: Require a grade of C or better

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<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>
<tr>
<td>SCM 200</td>
<td>Introduction to Statistics for Business</td>
<td>4</td>
</tr>
<tr>
<td>or STAT 200</td>
<td>Elementary Statistics</td>
<td></td>
</tr>
</tbody>
</table>

Supporting Courses and Related Areas
Attainment of 12th-credit-level proficiency in a single foreign language. Proficiency must be demonstrated by either examination or coursework.

Select 6 credits of supporting coursework. See Department List. 6

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)

University Park
Advising Center
Smeal College Undergraduate Education
202 Business Building
University Park, PA 16802
814-863-1947
uge@smeal.psu.edu

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).

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
PSU 6 1 MGMT 301 3
(MATH 110 or MATH 140) or (SCM 200 or STAT 200) (GQ) 4
ENGL 15, 30, ESL 15, ENGL 137H, or CAS 137H (GQ) 3
ECON 102 (GS) 3 General Education Course (US) 3
World Language - Level One 4 15 14

Second Year
Fall Credits Spring Credits
MKTG 301 3 FIN 301 3
ACCTG 211 4 SCM 301 3
ECON 104 3 CAS 100, ENGL 138T, or CAS 138T 3

Fall Credits Spring Credits
World Language - Level Three 4 3
General Education Course (IL) 4 3 17 15

Third Year
Fall Credits Spring Credits
MIS 301 1 3 MIS 431 1 3
ENGL 202D 3 Two-Piece Sequence (see Department list) 3
General Education Course 3 General Education Course 4 3
BLAW 341 or BA 342 3 BA 342 or BLAW 341 3
General Education Course 4 3 15 15

Fourth Year
Fall Credits Spring Credits
MIS 432 1 3 MIS 479 3
MIS 441 or 446 1 3 MIS 446 or 441 1 3
BA 411 (or Two-Piece Sequence (see Department List)) 3 BA 411 (or Two-Piece Sequence (see Department List)) 3
General Education Course (Z) 4 3 General Education Course 4 3
Elective 4 2 Elective 4 3 14 15

Total Credits 120

1 Course requires a grade of C or better
2 Entrance-to-Major Course – complete prior to attaining 59 cumulative credits at Penn State
3 Attain 12th credit level proficiency in a world language (0-12 credits). Credits required vary based on predetermined skill level. Balance of remaining credits are taken as electives.
4 When planning general education and elective courses, students should factor in the following requirements:
   • 3 credits of United States Culture (US)
   • 3 credits of International Culture (IL)
   • 6 credits of Inter-Domain (N) and/or Linked (Z) coursework

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/CAS 137 in the fall semester and ENGL/CAS 138 in the spring semester. These courses carry the GWS designation and replace both ENGL 30 and CAS 100. Each course is 3 credits.

**College and Department Notes:**

I. The Smeal College of Business requires that the following entrance-to-major courses be taken at Penn State: ACCTG 211, MKTG 301, MKTG 301, and FIN 301.

II. Pursuant to the Association to Advance Collegiate Schools of Business (AACSB) accreditation standards, the Smeal College of Business requires that all upper division courses within the departments sponsoring the major be completed in residence at University Park under the instruction of Smeal College faculty.

**Commonwealth Campuses**

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>
</tr>
</thead>
<tbody>
<tr>
<td>First-Year Seminar</td>
<td>3</td>
<td>1-0 MGTM 301</td>
<td>3</td>
</tr>
<tr>
<td>(MATH 110 or MATH 140)</td>
<td>4</td>
<td>(SCM 200 or STAT 200)</td>
<td>4</td>
</tr>
<tr>
<td>or (SCM 200 or STAT 200)</td>
<td>4</td>
<td>(MATH 110 or MATH 140)</td>
<td>4</td>
</tr>
<tr>
<td>(GQ)</td>
<td></td>
<td>(GQ)</td>
<td></td>
</tr>
<tr>
<td>ENGL 15, 30, ESL 15, ENGL 137H, or CAS 137H</td>
<td>3 World Language - Level Two</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>ECON 102 (GS)</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>(US)</td>
<td></td>
<td>(US)</td>
<td></td>
</tr>
<tr>
<td>World Language - Level One</td>
<td>4</td>
<td></td>
<td></td>
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</tbody>
</table>

| Total Credits 15-14 | 14 |

**Second Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MKTG 301</td>
<td>3</td>
<td>FIN 301</td>
<td>3</td>
</tr>
<tr>
<td>ACCTG 211</td>
<td>4</td>
<td>ENGL 202D</td>
<td>3</td>
</tr>
<tr>
<td>ECON 104</td>
<td>3</td>
<td>CAS 100, ENGL 138T, or CAS 138T</td>
<td>3</td>
</tr>
<tr>
<td>World Language - Level Three</td>
<td>4</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course (IL)</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
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</table>

| Total Credits 17     | 15 |

**Third Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 250</td>
<td>3</td>
<td>MIS 431</td>
<td>3</td>
</tr>
<tr>
<td>MIS 301</td>
<td>3</td>
<td>Two-Piece Sequence (see Department list)</td>
<td>3</td>
</tr>
<tr>
<td>SCM 301</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits 15-14 | 15 |

**Fourth Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>Credits</th>
<th>Spring</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIS 432</td>
<td>3</td>
<td>MIS 479</td>
<td>3</td>
</tr>
<tr>
<td>MIS 441 or 446</td>
<td>3</td>
<td>MIS 446 or 441</td>
<td>3</td>
</tr>
<tr>
<td>BA 411 (or Two-Piece Sequence (see Department List))</td>
<td>3</td>
<td>BA 411 (or Two-Piece Sequence (see Department List))</td>
<td>3</td>
</tr>
<tr>
<td>General Education Course (Z)</td>
<td>3</td>
<td>General Education Course</td>
<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>2-3</td>
<td>Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

| Total Credits 14-15 | 15 |

**University Requirements and General Education Notes:**

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**College and Department Notes:**

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II. Pursuant to the Association to Advance Collegiate Schools of Business (AACSB) accreditation standards, the Smeal College of Business requires that all upper division courses within the departments sponsoring the major be completed in residence at University Park under the instruction of Smeal College faculty.

**Accreditation**

The Bachelor of Science degree in Accounting is accredited by the Association to Advance Collegiate Schools of Business (AACSB).

MORE INFORMATION ABOUT THE ASSOCIATION TO ADVANCE COLLEGIATE SCHOOLS OF BUSINESS (http://www.aacsb.edu)

**Contact**

**University Park**

DEPARTMENT OF SUPPLY CHAIN AND INFORMATION SYSTEMS
University Park, PA 16802
454 Business Building
814-865-1866
scis@smeal.psu.edu

https://php.smeal.psu.edu/smeal/contact/?contactID=scis