Management Information Systems

Department Information

- **Department Location:**
  Richard H. Barry Hall
- **Department Phone:**
  701-231-8651
- **Department Web Site:**
  www.ndsu.edu/business/ (http://www.ndsu.edu/business/)
- **Credential Offered:**
  B.S.; Minor
- **Sample Program Guide:**
  catalog.ndsu.edu/programs-study/undergraduate/management-information-systems/#planofstudytext (http://catalog.ndsu.edu/programs-study/undergraduate/management-information-systems/#planofstudytext)

Major Requirements

Major: Management Information Systems

Degree Type: B.S.
Minimum Credits Required for Degree: 120

University Degree Requirements

1. Satisfactory completion of all requirements of the curriculum in which one is enrolled.
2. Earn a minimum total of 120 credits in approved coursework. Some academic programs exceed this minimum.
3. Satisfactory completion of the general education requirements as specified by the university.
4. A minimum institutional GPA of 2.00 based on work taken at NDSU.
5. At least 36 credits presented for graduation must be in courses numbered 300 or higher.
6. Transfer Students: Must earn a minimum of 60 credits from a baccalaureate-degree granting or professional institution.
   a. Of these 60, at least 36 must be NDSU resident credits as defined in #7.
   b. Within the 36 resident credits, a minimum of 15 must be in courses numbered 300 or higher and 15 credits in the major field of study.
7. At least 36 credits must be NDSU resident credits. Resident credits include credits registered and paid for at NDSU.

For complete information, please refer to the Degree and Graduation Requirements (http://catalog.ndsu.edu/past-bulletin-archive/2022-23/academic-policies/undergraduate-policies/degree-and-graduation/) section of this Bulletin.

University General Education Requirements

Code	Title	Credits
Communication (C)		**12**
ENGL 110	College Composition I	
ENGL 120	College Composition II	
COMM 110	Fundamentals of Public Speaking	
Upper Division Writing [†]		
Quantitative Reasoning (R) [†]		**3**
Science and Technology (S) [†]		**10**
Humanities and Fine Arts (A) [†]		**6**
Social and Behavioral Sciences (B) [†]		**6**
Wellness (W) [†]		**2**
Cultural Diversity (D) [*†]		
Global Perspectives (G) [*†]		
Total Credits		**39**

*   May be satisfied by completing courses in another General Education category.

†   General education courses may be used to satisfy requirements for both general education and the major, minor, and program emphases, where applicable. Students should carefully review major requirements to determine if specific courses can also satisfy these general education categories.

- A list of university approved general education courses and administrative policies are available here (http://catalog.ndsu.edu/past-bulletin-archive/2022-23/academic-policies/undergraduate-policies/general-education/#genedcoursestext).

Major Requirements

Code	Title	Credits

All courses taken for the Management Information Systems Major require a grade of C or better. A minimum 2.5 cumulative GPA is required for admission to the major, to enroll in 300-400 level courses, and to graduate.

Code	Title	Credits
Pre-Major Requirements		
COMM 110	Fundamentals of Public Speaking (May satisfy general education category C) *	3
ENGL 120	College Composition II (May satisfy general education category C) *	3
ECON 201	Principles of Microeconomics (May satisfy general education category B and G) *	3
or ECON 202	Principles of Macroeconomics	
MATH 144	Mathematics for Business *	4
PSYC 111	Introduction to Psychology (May satisfy general education category B) *	3
or SOC 110	Introduction to Sociology	
Management Information System Major Requirements		
ACCT 200	Elements of Accounting I *	3
ACCT 201	Elements of Accounting II *	3
TL 116	Business Software Applications	3
PHIL 216	Business Ethics (May satisfy general education category A) *	3
STAT 330	Introductory Statistics (May satisfy general education category R) *	3
STAT 331	Regression Analysis *	2
CSCI 227	Computing Fundamentals I (Fall) *	3
ECON 201	Principles of Microeconomics [2]	3
or ECON 202	Principles of Macroeconomics	
CSCI 228	Computing Fundamentals II (Spring) *	3
ENGL 320	Business and Professional Writing	3
Admission to the major program required prior to taking the following courses		
FIN 320	Principles of Finance [1]	3
MGMT 320	Foundations of Management [1]	3
MRKT 320	Foundations of Marketing [1]	3
SCM 460	Production & Operations Management	3
BUSN 430	Legal and Social Environment of Business [1]	3
BUSN 489	Strategic Management (Capstone Course) [1]	3
MIS 320	Management Information Systems [1]	3
MIS 315	System Analysis and Design (requires a grade of C or better)	3
MIS 350	Enterprise Systems	3
MIS 375	Database Design for Business Application (S)	3
MIS 376	Data and Telecommunications Administration (F)	3
MIS 470	Information Systems (S)	3
CSCI 312	Survey of Programming Languages (F)	3
Management Information Systems Practicum		
Student must complete one of the following options:		3
MIS 397	Fe/Coop Ed/Internship	
MIS 413	MIS Service Internship	
MGMT 470	Entrepreneurship/Small Business Management	
AGEC 371	Export Management	

Elective Requirements for MIS Major (Elective courses can only be used to fulfill ONE requirement) **

1) Programming Elective: Select one course from the following or an intermediate or advanced CSCI course that was not the teaching language of CSCI 227 or CSCI 228.		3
CSCI 125	Beginning COBOL	
CSCI 172	Intermediate Visual BASIC	
CSCI 213	Modern Software Development	
CSCI 371	Web Scripting Languages	
ECE 173	Introduction to Computing	
2) Technology Elective I: Any 300-400 level CSCI or MIS class not used to satisfy another MIS program requirement or		3
ECE 173	Introduction to Computing	
ECE 275	Digital Design	
CSCI 125	Beginning COBOL	
CSCI 172	Intermediate Visual BASIC	
CSCI 213	Modern Software Development (if not taken as a programming elective)	
CSCI 222	Discrete Mathematics	
CSCI 277	Introduction to UNIX	
CSCI 345	Topics on Personal Computers	
CSCI 371	Web Scripting Languages	
CSCI 469	Network Security	
CSCI 473	Foundations of the Digital Enterprise	
CSCI 488	Human-Computer Interaction	
CSCI 489	Social Implications of Computers	
MIS 340	Applied Business Intelligence	
MIS 412	Computer Crime, Forensics, and Investigation	
MIS 460	Enterprise Infrastructure I	
MIS 479	Business Data Mining and Predictive Analytics	
IME 456	Program and Project Management	
3) Technology Elective II: Take two courses from IME 456 or any 300 or 400 level CSCI or MIS course not used to satisfy another MIS major requirement		6
4) Business Elective: Any 300-400 level CoB course not used to satisfy other major requirements, CSCI 473, or ECON 324. (Excludes internships, study abroad, LEAD courses & MIS 371; includes courses cross-listed with CoB courses)		3
Total Credits		**102**

*	Grade of 'C' or better is required.
1	Denotes Common Body of Knowledge (CBK) course.
2	Take the other course not taken for the pre-major requirement.

Degree Requirements and Notes

- Students follow the published curricula for management information systems program of study from the semester/year of entrance in the College of Business to graduation provided enrollment at NDSU has not been discontinued for more than one year. Students who change their major are subject to meeting the curricular requirements in effect at the time the new major is declared.
- Business courses from programs that do not hold AACSB International accreditation cannot be used for major or minor requirements in the College of Business (CoB); such courses may be eligible for use as free electives.
- The CoB accepts a maximum of nine credits of non-NDSU 300-400 level business courses from AACSB programs with approval of the department.
- Admission to the MIS major is required to enroll in the advanced 300 or 400 level courses in the CoB.
- A grade of 'C' or better is required in transfer courses accepted for ACCT 200 Elements of Accounting I and ACCT 201 Elements of Accounting II and all 300-400 level accounting, business administration, finance, management, management information systems, and marketing courses.
- A letter grade must be earned in any course that fulfills a major requirement (with the exception of some practicum options).
- Requirements for graduation are those in existence at the time of admission to the MIS major.
- Of the credits completed in residence at least 30 credits must be in 300-400 level CoB courses.
- Students must be accepted to the MIS major prior to the completion of the last 30 credits in 300 and 400 level CoB courses.
- A Business Administration minor is NOT offered with this major.
- For multiple majors within the CoB, at least 15 unique credits of 300-400 level CoB courses must exist between the majors.
- Prerequisite for Management Information Systems Practicum: MIS 320 with a grade of C or better.

Minor Requirements

Minor: Management Information Systems

Required Credits: 21

Students should refer to www.ndsu.edu/business (https://www.ndsu.edu/business/) for information on declaring the minor with the CoB.

Code	Title	Credits
Requirements		
MGMT 320	Foundations of Management	3
MIS 315	System Analysis and Design	3
MIS 375	Database Design for Business Application [*]	3
or CSCI 366	Database Systems	
MIS 376	Data and Telecommunications Administration [*]	3
or CSCI 459	Foundations of Computer Networks	
CSCI 227	Computing Fundamentals I [**]	3-4
or CSCI 160	Computer Science I	
Select one of the following:		3
ACCT 420	Accounting Information Systems	
MIS 470	Information Systems	
Or an MIS advisor-approved CoB course that is MIS related		
Select one of the following:		3
An MIS adviser approved 300-400 level CSCI course		
Or one of the following:		
CSCI 122	Visual BASIC	
CSCI 161	Computer Science II	
CSCI 172	Intermediate Visual BASIC	
CSCI 228	Computing Fundamentals II [**]	
Total Credits		**21-22**

[*]   Students who take CSCI 366 Database Systems & CSCI 459 Foundations of Computer Networks, must select an additional MIS advisor-approved CoB course.

[**]   It is strongly recommended that students who take CSCI 227 select CSCI 228 as their elective in preparation for MIS 315.

Minor Requirements and Notes

- A minimum of 9 credits must be completed in the CoB.
- Approval forms must be submitted after completed CSCI 227 Computing Fundamentals I or CSCI 160 Computer Science I.
- To be accepted into the minor program, students must have a 2.50 institutional cumulative GPA. To complete a minor, students must earn at least a 2.50 GPA that is based on the courses used to satisfy the minor requirements. Courses may not be taken pass/fail.
- If the cumulative GPA falls below the 2.50 after acceptance into the program, the student will not be allowed to register for the CoB courses until the cumulative GPA returns to 2.50 or above.
- Students are subject to the minor requirements in effect during the year in which the minor was approved.
- Minors must satisfy all course prerequisites.
- Approval for a minor does not guarantee enrollment in specific courses.
- Graduation with a minor in Management Information Systems requires a grade of 'C' or better in all courses required for the minor.