# INFORMATION SYSTEMS - BACHELOR OF BUSINESS ADMINISTRATION

Every candidate for this major must fulfill the following requirements in addition to the general education common core, College of Business foundation and business core (https://catalogs.nmsu.edu/nmsu/business/), Viewing a Wider World requirements and general electives.

Please note that some of the courses listed may have a prerequisite which would require a student to take an additional course. Substitutions for some of these courses may be considered if a student makes this request to the department.

Note: The Information Systems major is also offered through an Online Distance Education Degree Completion Program. Program information is available on the College of Business website: http://business.nmsu.edu/academics/undergraduate/online-programs/ (https://business.nmsu.edu/online/)

## Course Requirements

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

| Prefix | Title | Credits |
|---|---|---|
| **General Education** | | |
| Grades of C- or better are required in general education communications courses. | | |
| *Area I: Communications* | | |
| *English Composition - Level 1* | | |
| Choose one from the following: | | 4 |
| ENGL 1110G | Composition I | |
| ENGL 1110H | Composition I Honors | |
| ENGL 1110M | Composition I | |
| *English Composition - Level 2* | | |
| ENGL 2210G | Professional and Technical Communication Honors | 3 |
| *Oral Communication* | | |
| Choose one from the following: | | 3 |
| ACOM 1130G | Effective Leadership and Communication in Agriculture | |
| COMM 1115G | Introduction to Communication | |
| COMM 1130G | Public Speaking | |
| HNRS 2175G | Introduction to Communication Honors | |
| *Area II: Mathematics* | | |
| MATH 1220G | College Algebra (Foundation Requirement) [1] | 3 |
| *Area III/IV: Laboratory Sciences and Social/Behavioral Sciences* | | 10 |
| ECON 2110G | Macroeconomic Principles (Credits are counted in Business Core) | |
| ECON 2120G | Principles of Microeconomics (Credits are counted in Business Core) | |
| Area III: Laboratory Sciences Course (4 credits) [2] | | |
| *Area V: Humanities* [2] | | 3 |
| *Area VI: Creative and Fine Arts* [2] | | 3 |
| *General Education Elective* | | |
| MATH 1430G | Applications of Calculus I (Foundation Requirement) | 3 |
| **Viewing a Wider World** [3] | | **6** |
| **Departmental/College Requirements** | | |
| *Foundation Requirements* [4] | | |
| Choose one from the following: | | 3 |
| If MATH 1350G is taken before MATH 1220G then the Statistics course will satisfy the Area II Requirement and MATH 1220G must be taken as a foundation requirement [1] | | |
| MATH 1350G | Introduction to Statistics (Foundation Requirement) | |
| A ST 311 | Statistical Applications (Foundation Requirement - doesn't count as Gen.Ed ) | |
| *Business Core: Lower Division (minimum grades of C- required)* | | |
| ACCT 2110 | Principles of Accounting I (not recommended for freshman year) | 3 |
| ACCT 2120 | Principles of Accounting II | 3 |
| BCIS 1110 | Introduction to Information Systems | 3 |
| BUSA 1110 | Intro to Business | 3 |
| *Business Core: Upper Division* | | |
| BCIS 338 | Business Information Systems I | 3 |
| BLAW 316 | Legal Environment of Business | 3 |
| BFIN 341 | Financial Analysis and Markets | 3 |
| MGMT 309 | Human Behavior in Organizations | 3 |
| MGMT 449 | Strategic Management | 3 |
| MKTG 303 | Principles of Marketing | 3 |
| Choose one from the following: | | 3 |
| BCIS 485 | Enterprise Resource Planning | |
| MGMT 344 | Production and Operations Management | |
| MGMT 470 | Project Management in Organizations | |
| Upper division Economics or Applied Statistics elective from the following prefixes: A ST (excluding A ST 311), ECON | | 3 |
| Upper Division Business elective from the following prefixes: A ST, ACCT, B A, BCIS, BLAW, ECON, ENTR, BFIN, I B, MGMT, MKTG (excluding A ST 311) | | 3 |
| *Major Courses* | | |
| BCIS 321 | Introduction to Software Development and Programming | 3 |
| BCIS 350 | Information Systems Analysis and Design | 3 |
| BCIS 461 | Business Analytics I | 3 |
| BCIS 475 | Database Management Systems | 3 |
| *Select 12 credits of Information Systems Electives* | | 12 |
| BCIS 466 | Business Analytics II | |
| BCIS 480 | Introduction to Cybersecurity: Exploring Computer, Network, and Data Security Principles | |
| BCIS 482 | Management of Information Security | |
| BCIS 490 | Selected Topics | |
| ICT 339 | Introduction to Digital Forensics and Incident Response | |
| ICT 377 | Computer Networking I | |
| ICT 477 | Computer Networking II | |
| **Second Language: (not required)** | | |
| **Electives, to bring the total credits to 120** [5] | | **16** |
| **Total Credits** | | **120** |

[1]  Students may be required to take MATH 1215 Intermediate Algebra, depending on their math placement. MATH 1220G College Algebra or MATH 1430G Applications of Calculus I or MATH 1350G Introduction to Statistics fulfills the general education requirement in math.

[2]  See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.

[3]  See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses and how to fulfill this requirement.

[4]   All Foundation Requirement Courses must be taken, or satisfied with transfer credits, regardless of which Mathematics or Statistics course satisfies the Area II General Education course: MATH 1220G, MATH 1430G and MATH 1350G orA ST 311 must be completed.

[5]  Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

# A Suggested Plan of Study for Students

This roadmap assumes student  placement in MATH 1220G College Algebra and ENGL 1110G Composition I. The contents and order of this roadmap may vary depending on initial student placement in mathematics and English. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

**First Year**

**Fall**

| | | Credits |
|---|---|---|
| MATH 1220G | College Algebra (C- or better) [1] | 3 |
| BUSA 1110 | Intro to Business (C- or better) | 3 |
| Choose one from the following: | | 4 |
| ENGL 1110G | Composition I (C- or better) [1] | |
| ENGL 1110H | Composition I Honors (C- or better) [1] | |
| ENGL 1110M | Composition I (for multicultural/international students only and a C- or better) [1] | |
| Area V: Humanities Course [2] | | 3 |
| Elective Course [3] | | 3 |
| | **Credits** | **16** |

**Spring**

| | | |
|---|---|---|
| MATH 1430G | Applications of Calculus I [1] | 3 |
| BCIS 1110 | Introduction to Information Systems (C- or better) | 3 |
| Choose one from the following: | | 3 |
| ACOM 1130G | Effective Leadership and Communication in Agriculture (C- or better) | |
| COMM 1115G | Introduction to Communication (C- or better) | |
| COMM 1130G | Public Speaking (C- or better) | |
| HNRS 2175G | Introduction to Communication Honors (C- or better) | |
| Area III: Laboratory Science Course [2] | | 4 |
| Area VI: Creative and Fine Arts Course [2] | | 3 |
| | **Credits** | **16** |

**Second Year**

**Fall**

| | | |
|---|---|---|
| Choose one from the following: | | 3 |
| MATH 1350G | Introduction to Statistics (C- or better) [1] | |
| A ST 311 | Statistical Applications (C- or better) [1] | |
| ECON 2110G | Macroeconomic Principles (counts towards Area IV Gen.Ed and a C- or better) [1] | 3 |
| ACCT 2110 | Principles of Accounting I (C- or better) | 3 |
| ENGL 2210G | Professional and Technical Communication Honors (counts towards Area I Gen.Ed, and a C- or better) [1] | 3 |
| Elective Course [3] | | 4 |
| | **Credits** | **16** |

**Spring**

| | | |
|---|---|---|
| Elective Course [3] | | 3 |
| ECON 2120G | Principles of Microeconomics (counts towards Area IV Gen.Ed, and a C- or better) [1] | 3 |
| ACCT 2120 | Principles of Accounting II (C- or better) [1] | 3 |
| VWW - Viewing a Wider World Course [4] | | 3 |
| BCIS 321 | Introduction to Software Development and Programming | 3 |
| | **Credits** | **15** |

**Third Year**

**Fall**

| | | |
|---|---|---|
| BCIS 338 | Business Information Systems I [1] | 3 |
| BCIS 350 | Information Systems Analysis and Design [1] | 3 |
| MKTG 303 | Principles of Marketing | 3 |
| MGMT 309 | Human Behavior in Organizations | 3 |
| Information Systems Elective Course [1,5] | | 3 |
| | **Credits** | **15** |

**Spring**

| | | |
|---|---|---|
| BCIS 475 | Database Management Systems [1] | 3 |
| Information Systems Elective Course [1,5] | | 3 |
| BLAW 316 | Legal Environment of Business | 3 |
| BFIN 341 | Financial Analysis and Markets [1] | 3 |
| VWW - Viewing a Wider World Course [4] | | 3 |
| | **Credits** | **15** |

**Fourth Year**

**Fall**

| | | |
|---|---|---|
| BCIS 461 | Business Analytics I | 3 |
| Information Systems Elective Course [1,5] | | 3 |
| Choose one from the following: | | 3 |
| BCIS 485 | Enterprise Resource Planning [1] | |
| MGMT 344 | Production and Operations Management [1] | |
| MGMT 470 | Project Management in Organizations [1] | |
| ECON or A ST Upper-Division Elective Course (excluding A ST 311) | | 3 |
| Elective Course [3] | | 3 |
| | **Credits** | **15** |

**Spring**

| | | |
|---|---|---|
| Information Systems Elective Course [1,5] | | 3 |
| Elective Course [3] | | 3 |
| MGMT 449 | Strategic Management [1] | 3 |
| Any Business Upper-Division Elective Course (excluding A ST 311) | | 3 |
| | **Credits** | **12** |
| | **Total Credits** | **120** |

1   These courses have prerequisites and it is the student's responsibility for checking and fulfilling all course prerequisites listed for these courses

2   See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) section of the catalog for a full list of courses.

3   Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-by-case basis and students should discuss elective requirements with their advisor.

4   See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext) section of the catalog for a full list of courses.

5   Information Systems Elective Courses:
   - BCIS 466 Business Analytics II, BCIS 480 Introduction to Cybersecurity: Exploring Computer, Network, and Data Security Principles, BCIS 490 Selected Topics
   - ICT 339 Introduction to Digital Forensics and Incident Response, ICT 377 Computer Networking I, ICT 477 Computer Networking II