

# INFORMATION SYSTEMS - BACHELOR OF BUSINESS ADMINISTRATION (ONLINE)

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.

## 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
<b>General Education</b>		
Grades of C- or better are required in general education communications courses.		
<i>Area I: Communications</i>		
<i>English Composition - Level 1</i>		
Choose one from the following:		4
ENGL 1110G	Composition I	
ENGL 1110H	Composition I Honors	
ENGL 1110M	Composition I	
<i>English Composition - Level 2</i>		
ENGL 2210G	Professional and Technical Communication	3
or ENGL 2210H	Professional and Technical Communication	
<i>Oral Communication</i>		
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	
<i>Area II: Mathematics</i>		
MATH 1220G	College Algebra (Foundation Requirement) <sup>1</sup>	3
<i>Area III/IV: Laboratory Sciences and Social/Behavioral Sciences</i>		
		10
ECON 2110G	Macroeconomic Principles (Credits are counted in Business Core)	
ECON 2120G	Principles of Microeconomics Honors (Credits are counted in Business Core)	
<i>Area III: Laboratory Sciences Course (4 credits) <sup>2</sup></i>		
<i>Area V: Humanities <sup>2</sup></i>		3
<i>Area VI: Creative and Fine Arts <sup>2</sup></i>		3
<i>General Education Elective</i>		
MATH 1430G	Applications of Calculus I (Foundation Requirement)	3
<b>Viewing a Wider World <sup>3</sup></b>		<b>6</b>

<b>Departmental/College Requirements</b>		
<i>Foundation Requirements <sup>4</sup></i>		
A ST 311	Statistical Applications (Foundation Requirement - doesn't count as Gen.Ed )	3
<i>Business Core: Lower Division (minimum grades of C- required)</i>		
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
<i>Business Core: Upper Division</i>		
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
MGMT 344	Production and Operations Management	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
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
<i>Major Courses</i>		
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
<i>Select 12 credits of Information Systems Electives</i>		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 485	Enterprise Resource Planning	
BCIS 490	Selected Topics	
ICT 339	Introduction to Digital Forensics and Incident Response	
ICT 377	Computer Networking I	
ICT 477	Computer Networking II	
<b>Second Language: (not required)</b>		
<b>Electives, to bring the total credits to 120 <sup>5</sup></b>		<b>16</b>
<b>Total Credits</b>		<b>120</b>

<sup>1</sup> 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.

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

<sup>3</sup> 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.

<sup>4</sup> 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 A ST 311 must be completed.

<sup>5</sup> 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) <sup>1</sup>	3
BUSA 1110	Intro to Business (C- or better)	3
Choose one from the following:		4
ENGL 1110G	Composition I (C- or better) <sup>1</sup>	
ENGL 1110H	Composition I Honors (C- or better) <sup>1</sup>	
ENGL 1110M	Composition I (for multicultural/international students only and a C- or better) <sup>1</sup>	
Area V: Humanities Course <sup>2</sup>		3
Elective Course <sup>3</sup>		3
<b>Credits</b>		<b>16</b>

### Spring

MATH 1430G	Applications of Calculus I <sup>1</sup>	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 <sup>2</sup>		4
Area VI: Creative and Fine Arts Course <sup>2</sup>		3
<b>Credits</b>		<b>16</b>

### Second Year

Fall		Credits
A ST 311	Statistical Applications (C- or better) <sup>1</sup>	3
ECON 2110G	Macroeconomic Principles (counts towards Area IV Gen.Ed and a C- or better) <sup>1</sup>	3
ACCT 2110	Principles of Accounting I (C- or better)	3
ENGL 2210G or ENGL 2210H	Professional and Technical Communication (counts towards Area I Gen.Ed, and a C- or better) <sup>1</sup> or Professional and Technical Communication	3
Elective Course <sup>3</sup>		4
<b>Credits</b>		<b>16</b>

### Spring

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

### Third Year

#### Fall

BCIS 338	Business Information Systems I <sup>1</sup>	3
BCIS 350	Information Systems Analysis and Design <sup>1</sup>	3
MKTG 303	Principles of Marketing	3
MGMT 309	Human Behavior in Organizations	3
Information Systems Elective Course <sup>1,5</sup>		3
<b>Credits</b>		<b>15</b>

#### Spring

BCIS 475	Database Management Systems <sup>1</sup>	3
Information Systems Elective Course <sup>1,5</sup>		3
BLAW 316	Legal Environment of Business	3
BFIN 341	Financial Analysis and Markets <sup>1</sup>	3
VWW - Viewing a Wider World Course <sup>4</sup>		3
<b>Credits</b>		<b>15</b>

### Fourth Year

#### Fall

BCIS 461	Business Analytics I	3
Information Systems Elective Course <sup>1,5</sup>		3
MGMT 344	Production and Operations Management <sup>1</sup>	3
Any Business Upper-Division Elective Course (excluding A ST 311)		3
Elective Course <sup>3</sup>		3
<b>Credits</b>		<b>15</b>

#### Spring

Information Systems Elective Course <sup>1,5</sup>		3
Elective Course <sup>3</sup>		3
MGMT 449	Strategic Management <sup>1</sup>	3
Any Business Upper-Division Elective Course (excluding A ST 311)		3
<b>Credits</b>		<b>12</b>
<b>Total Credits</b>		<b>120</b>

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

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

<sup>3</sup> 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.

<sup>4</sup> 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.

<sup>5</sup> Information Systems Elective Courses:

- BCIS 466 Business Analytics II, BCIS 480 Introduction to Cybersecurity: Exploring Computer, Network, and Data Security Principles, BCIS 485 Enterprise Resource Planning, BCIS 490 Selected Topics
- ICT 339 Introduction to Digital Forensics and Incident Response, ICT 377 Computer Networking I, ICT 477 Computer Networking II