

**B.S. in BUSINESS ADMINISTRATION  
COMPUTER INFORMATION SYSTEMS EMPHASIS  
Suggested Four-Year Schedule  
2013-2014 Catalog**

Student:

Date:

Advisor:

Bear ID:

The Bachelor of Science in Business Administration degree requires a minimum of **120 hours** which includes:  
**60 hours of Business** coursework (**33 hours of Business Core**, **24 hours of Emphasis** courses and **3 hours of Business Elective** courses) and  
**60 hours of Non-Business** coursework which includes a minimum of **40 Non-Business hours** designated as **Liberal Arts Core (LAC)**.  
BA 150 (LAC 3c), BA 251 (LAC 7), and/or BACS 101 (LAC ELCT) may count as part of the 60 hour requirement for Non-Business coursework.

YEAR ONE			Sem. Hrs.
BACS 101	*(LAC ELCT) Business Computing		3
ENG 122	(LAC 1a) College Composition		3
	(LAC 6 - Sciences)		3
	(LAC 3 - Art & Humanities)		3
ECON 205	(LAC 5a) Principles of Microeconomics		3
MATH 124	(LAC 2) College Algebra		4
PSY 120 or SOC 100 or PSY 265	(LAC 5c) Principles of Psychology or (LAC 5c) Principles of Sociology or (LAC 5c) Social Psychology		3
	(LAC 7 - International Studies)		3
	(LAC 4 - History)		3
	(LAC 3 - Arts & Humanities)		3
<b>Total</b>			<b>31</b>

YEAR TWO			Sem. Hrs.
ENG 123	(LAC 1b) College Research Paper		3
<b>BAAC 220</b>	<b>Principles of Accounting I</b>		<b>3</b>
MATH 176	Topics in Calculus		3
ECON 203	(LAC 5a) Principles of Macroeconomics		3
<b>BAAC 221</b>	<b>Principles of Accounting II</b>		<b>3</b>
<b>BAFN 231</b>	<b>Legal Environment of Business</b>		<b>3</b>
<b>BAFN 291</b>	<b>Business Statistics I</b>		<b>3</b>
	(LAC 6 - Sciences) (with Lab)		4
COMM 100	Basics of Public Speaking		1
COMM 101	Speaking Evaluation		2
BACS 287	Graphical Interface Programming ( <b>SP</b> )		3
<b>BA 299</b>	<b>Professional Experience</b>		0
<b>Total</b>			<b>31</b>

YEAR THREE			Sem. Hrs.
<b>BAFN 305</b>	<b>Intermediate Business Stats</b>		<b>3</b>
<b>BAMG 350</b>	<b>Management of Organizations</b>		<b>3</b>
<b>BAMK 360</b>	<b>Marketing</b>		<b>3</b>
<b>BACS 300</b>	<b>Information Systems</b>		<b>3</b>
<b>BAFN 370</b>	<b>Business Finance</b>		<b>3</b>
BACS 380	Network & Data Comm Systems		3
BACS 387	Object Oriented System Development ( <b>F</b> )		3
	CIS Emphasis Elective: Take three (3) semester credit hours from the following: BACS 350, 371, 382, 392, 486, or 495		3
<b>BAFN 390</b>	<b>Operations Management</b>		<b>3</b>
	(LAC 8 - Multicultural Studies)		3
<b>Total</b>			<b>30</b>

YEAR FOUR			Sem. Hrs.
<b>BAMG 456</b>	<b>Strategic Management</b>		<b>3</b>
BACS 485	Database Management Systems ( <b>F</b> )		3
BACS 487	Systems Analysis and Design ( <b>F</b> )		3
BACS 488	Senior CIS Project ( <b>SP</b> )		3
	Non-Business Elective		3
	Non-Business Elective		3
	Non-Business Elective		3
	CIS Emphasis Elective: Take three (3) semester credit hours from the following: BACS 350, 371, 382, 392, 486, or 495		3
	Business Elective: Take three (3) semester credit hours from: BA 205, BACS 200 or any 300/400 level course from any emphasis that is not counted in the Business Core, Required Emphasis, or Required Emphasis Electives. (BAAC 301, BAFN 302 and BAMG 356 may not be used.)		3
	Non-Business Elective		1
<b>Total</b>			<b>28</b>

Non-Bus. hrs. completed		LAC hrs. remaining		Non-Bus. hrs. remaining		Total Non-Bus. hrs. remaining	
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**\*If a student fulfills the BACS 101 requirement by successfully passing the Computer Proficiency Exam, the student will choose an alternative 3 semester hours of Non-Business Elective credits in order to reach the 120 hours required for graduation.**

Computing Proficiency Exam: The College maintains a computing proficiency requirement as a prerequisite to certain business courses. It is expected that most students will demonstrate this proficiency as they enter the program. All students may demonstrate this competency through:  
a.) passing a stand-alone proficiency exam or; b.) completing an integrated proficiency exam and earning a satisfactory grade in BACS 101 Business Computing. To sign up for the exam, go to the following address <http://www.mcb.unco.edu/Technology/CPE/>.

A student must attain a 2.0 or greater cumulative Business GPA, and at least a "C-" grade in each individual Business Administration Core course. A student who has attempted at least nine UNC credits in Business Administration courses must maintain a 2.0 grade point average in all Business courses. The following Business courses do **not** count in the Business GPA: BA 180, BAFN 240, BAMK 260, BAAC 301, BAFN 302, and BAMG 356.

UNC's Grade Replacement Policy may be applied to Business courses during the student's undergraduate academic career. Please see <http://www.unco.edu/regrec/Current%20Students/Grades/Gradereplacement.html> for details.

**Note:** Some students may qualify to apply for admission to a Business major or minor. These students include: Transfer students with at least 15 hours with a cumulative GPA of 2.5-2.99 and UNC students who have completed a total of 15 hours with a cumulative UNC GPA of 2.5-2.99. Students may apply with the administrative assistant in the department of their choice of emphasis located in Kepner Hall.

## MCB COURSE PREREQUISITES: 2013-2014 CATALOG

Students must meet course prerequisites as stated in the **current** UNC catalog.  
Check the catalog each semester you register to make certain you meet requirements.

**BUSINESS CORE: 33 semester credit hours total**  
Take all courses in the following list. A grade of "C-" or better is required in each course.  
A student may transfer a maximum of 12 semester credit hours of the Business Core to UNC.

Course #	Course Titles	Prerequisites	Prerequisite Course Titles/Notes
BA 299	Professional Experience	Consent of instructor Business Majors only	
BAAC 220	Principles of Accounting I	BACS 101 or CPE At least 24 credit hours completed	Business Computing (may be taken concurrently)
BAAC 221	Principles of Accounting II	BACS 101 or CPE BAAC 220 Sophomores or above	Business Computing (may be taken concurrently) Principles of Accounting I with a minimum of "C-"
BAFN 231	Legal Environment of Business	None	
BAFN 291	Business Statistics I	BACS 101 or CPE MATH 124	Business Computing (may be taken concurrently) College Algebra
BACS 300	Information Systems	BACS 101 or CPE or CS 101 Business Majors/Minors & SE Majors only Juniors or above	Business Computing Introduction to Computer Science
BAFN 305	Intermediate Business Statistics	BACS 101 or CPE BAFN 291 MATH 176 or MATH 131 Business Majors/Minors only Juniors or above	Business Computing Business Statistics Topics in Calculus Calculus I
BAMG 350	Management of Organizations	Juniors or above	
BAMK 360	Marketing	ECON 205 Juniors or above	Principles of Microeconomics (may be taken concurrently)
BAFN 370	Business Finance	BAAC 221 BAFN 291 ECON 203 ECON 205 Juniors or above	Principles of Accounting II Business Statistics I Principles of Macroeconomics Principles of Microeconomics
BAFN 390	Operations Management	BACS 101 or CPE BAFN 291 Business Majors only Juniors or above	Business Computing Business Statistics I
BAMG 456	Strategic Management	BAFN 305 BAFN 370 BAMG 350 BAMK 360 Business Majors only Senior standing	Intermediate Business Statistics (may be taken concurrently) Business Finance Management of Organizations Marketing

### COMPUTER INFORMATION SYSTEMS EMPHASIS: 24 semester credit hours total

A maximum of 9 semester credits in 300/400-level Required Emphasis Credits and Elective Emphasis Credits and Business Electives can be transferred from other four-year institutions.

#### Required Emphasis Courses: 18 semester credit hours

Take all courses in the following list. A grade of "C-" or better is required in each course.

Course #	Course Titles	Prerequisites	Prerequisite Course Titles/Notes
BACS 287	Graphical Interface Programming (SP)	Business Majors/Minors & SE Majors only	
BACS 380	Networking and Data Communications Systems	Business Majors/Minors & SE Majors only Juniors or above	
BACS 387	Object Oriented System Development (F)	BACS 287 Business Majors/Minors & SE Majors only Juniors or above	Graphical Interface Programming
BACS 485	Database Management Systems (F)	BACS 287 Business Majors/Minors & SE Majors only Juniors or above	Graphical Interface Programming
BACS 487	Systems Analysis and Design (F)	BACS 287 BACS 300 CIS emphasis students, CIS Minors, & SE Majors only Juniors or above	Graphical Interface Programming Information Systems
BACS 488	Senior CIS Project (SP)	BACS 387 and BACS 487 or consent of instructor Business Majors/Minors & SE Majors only Senior standing	Object Oriented System Development Systems Analysis and Design

#### Required Elective Emphasis Courses: 6 semester credit hours

Take two courses from the following list. A grade of "C-" or better is required in each course.

Course #	Course Titles	Prerequisites	Prerequisite Course Titles/Notes
BACS 350	Intermediate Web Development	BACS 200 or consent of instructor	Web Design and Development for Small Business
BACS 371	Introduction to Computer Forensics	BACS 300 or consent of instructor	Information Systems
BACS 382	TCP/IP Network Security	BACS 380 or consent of instructor	Networking & Data Communications Systems
BACS 392	Systems Platforms & Network Development	BACS 380 or consent of instructor Business Majors/Minors only Juniors or above	Networking & Data Communications Systems with "C-"
BACS 486	Advanced Database Management	BACS 485 Business Majors only Seniors standing	Database Management Systems
BACS 495	Special Topics in CIS	Consent of instructor Business Majors/Minors only Juniors or above	

- Notes:**
- BACS 495 Special Topics in CIS may be repeated. A maximum of 6 credits may be applied to the student's degree program.
  - With the written approval of the CIS Department Chair, an Executive Professor Special Topics course may be substituted for BACS 495 Special Topics in CIS.