

BBA in Information Systems

The state of Enterprise software platforms today posits 90 % of enterprise platforms are at end of life. Every enterprise needs to undergo expensive digital transformation. Documented examples ADP, CVS. Southwest airlines. Our IS majors are entering an area of unprecedented professional career advantage over other majors. Our graduates will obtain understanding and skills in the application of information technology as a solution to various business problems. In addition to demonstrated knowledge in the design, development, implementation, and maintenance of information systems to support business operations, our graduates will acquire working knowledge in foundations of business education including accounting, economics, finance, marketing, entrepreneurship, and strategic management.

Possible career paths for students pursuing this academic program are multidimensional: Cyber Security, ML, AI, PM, database administration, Business analyst. There is also a cross-over with accounting, OSCM, and finance.

Marketable Skills

The main skillsets for our graduates include verbal and written communication; problem-solving and decision making; critical thinking; team collaboration; and interpersonal relationship. These skills are developed through the activities the students undertake during their education in our program such as professional development activities, group projects and presentations, student organization participation, and internships, case studies, and community involvement.

1. Communication: Reach mutual understanding through effective exchange of information, ideas, and feelings
2. Critical thinking: Analyze and evaluate issues in order to solve problems and develop informed opinions
3. Problem-solving: Find solutions to difficult or complex issues

The graduating students also develop skills on leadership, project management, strategic use of information technology, and security of business systems.

Degree Plan

Required Credits: 120

Code	Title	Hours
Business Designated Core (All courses require a C or better.)		
Complete the Business Designated Core requirements. (p. 2)		
University Core Curriculum		
Complete the University Core Curriculum requirements. (p. 2)		42
Business Foundation (All courses require a C or better.)		
Required Courses:		
ACCT 2301	Principles of Accounting I	3
ACCT 2302	Principles of Accounting II	3
ECON 2304	Principles of Microeconomics	3
QMB 2301	Business Stats & Analytics I	3
Math Elective:		
Select one of the following:		3-4
MATH 1411	Calculus I	
MATH 2301	Math for Social Sciences II	
Business Core		
Required Courses:		
BLAW 3301	Legal Environment of Business	3
BUSN 3304	Global Business Environment	3
or BUSN 3305	Global Busn Environ-Study Away	
CIS 3345	Management Information Systems	3
FIN 3310	Business Finance	3
MGMT 3303	Intro-Mgmt/Organizational Beha	3
MGMT 4300	Strategic Management	3
MKT 3300	Principles of Marketing	3
OSCM 3321	Production/Operations Mgmt	3

QMB 3301	Business Stats & Analytics II	3
ACCT 3321	Intermediate Accounting I	3
ECON 3310	Managerial Economics	3
or ECON 3320	Money and Banking	
Computer Info Systems Major		
Information Systems Core Requirements		
CIS 3301	Intro to Data Process & Prog	3
CIS 3315	Busi Analytics Applications	3
CIS 3330	Analytic Programming Tools	3
CIS 3350	Sys. Anal. & Des. for Bus. Ana	3
CIS 4301	Busi Intel and Decis Modeling	3
CIS 4365	Database Management	3
Select twelve hours business minor or certificate		12
Total Hours		120-121

Business Designated Core

Although the UTEP choice is larger, these choices satisfy the requirements of both the core and the major.

All courses listed within this degree require a grade of C or better for successful completion.

Code	Title	Hours
Mathematics		
Select one of the following:		
MATH 1411	Calculus I	
MATH 1320	Math for Social Sciences I	
MATH 1508	Precalculus	
Social and Behavioral Sciences		
Required:		
ECON 2303	Principles of Macroeconomics	3
The following additional courses are also recommended:		
COMM 1302	Business/Profession Comm	
MATH 1320	Math for Social Sciences I	
PHIL 2306	Ethics	

University Core Curriculum

The department may make specific suggestions for courses which are most applicable towards your major.

All courses require a C or better

I. Communication (six hours)

Code	Title	Hours
The objective of the communication component is to enable the student to communicate effectively in clear and correct prose or orally in a style appropriate to the subject, occasion, and audience.		
Select six hours of the following:		6
For students whose secondary education was in English:		
COMM 1611	Written and Oral Communication	
ENGL 1313	Writing About Literature	
RWS 1301	Rhetoric & Composition I	
RWS 1302	Rhetoric & Composition 2	
RWS 1601	Rhetoric, Composition & Comm	
For students whose secondary education was not in English:		
ESOL 1311	Expos Engl Compos-Spkr Esl	

ESOL 1312

Res & Crit Writng Spkr Esl

Total Hours**6****II. American History (six hours)**

Code	Title	Hours
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The objectives of the history component are to expand students' knowledge of the origin and history of the U.S., their comprehension of the past and current role of the U.S. in the world, and their ability to critically evaluate and analyze historical evidence. U.S. history courses (three hours must be Texas history) include:

HIST 1301	History of U.S. to 1865	3
HIST 1302	History of U.S. Since 1865	3

Total Hours**6****III. Language, Philosophy & Culture (three hours)**

Code	Title	Hours
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The objective of the humanities component is to expand students' knowledge of the human condition and human cultures, especially in relation to behaviors, ideas, and values expressed in works of human imagination and thought. Through study in disciplines such as literature and philosophy, students engage in critical analysis and develop an appreciation of the humanities as fundamental to the health and survival of any society.

Select one of the following: 3

AFST 2300	Intro-African Amer Studies	
CHIC 2302	Latina/o Presence in the U.S.	
ENGL 2311	English Literature	
ENGL 2312	English Literature	
ENGL 2313	Intro to American Fiction	
ENGL 2314	Intro to American Drama	
ENGL 2318	Intro to American Poetry	
FREN 2322	Making of the "Other" Americas	
HIST 2301	World History to 1500	
HIST 2302	World History Since 1500	
PHIL 1301	Introduction to Philosophy	
PHIL 2306	Ethics	
RS 1301	Introduct to Religious Studies	
SPAN 2340	Seeing & Naming: Conversations	
WS 2300	Introduction to Womens Studies	
WS 2350	Global Feminisms	

Total Hours**3****IV. Mathematics (three hours)**

Code	Title	Hours
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The objective of the mathematics component is to develop a quantitatively literate college graduate. Every college graduate should be able to apply basic mathematical tools in the solution of real-world problems.

Select one of the following: 3

MATH 1309	College Algebra	
MATH 1310	Trigonometry and Conics	
MATH 1319	Math in the Modern World	
MATH 1320	Math for Social Sciences I	
MATH 1411	Calculus I	
MATH 1508	Precalculus ^{1,2}	
MATH 2301	Math for Social Sciences II	
STAT 1380	Statistical Literacy	
STAT 2480	Elementary Statistical Methods	

¹ A higher-level course in the calculus sequence can be substituted.

2 TCCN MATH 1314 will also satisfy this requirement.

Total Hours

3

V. Life & Physical Sciences (six hours)

Code **Title** **Hours**

The objective of the study of the natural sciences is to enable the student to understand, construct, and evaluate relationships in the natural sciences, and to enable the student to understand the bases for building and testing theories. The courses listed are for non-majors; the major courses in the discipline can be substituted for the non-major sequence. A minimum of two semesters of lecture and one semester of laboratory associated with one of the courses, or two semesters of combined (3 credit) lecture-laboratory courses (Only six hours apply toward the required 42.):

Select one of the following: 1-4

ASTR 1107	Astronomy Lab I	
ASTR 1307	Elem Astronomy-Solar System	
ASTR 1308	Elem Astr Stars & Galaxies	
BIOL 1103	Introductory Biology Lab	
BIOL 1104	Human Biology Laboratory	
BIOL 1107	Topics in Study of Life I	
BIOL 1108	Organismal Biology Laboratory	
BIOL 1203	Introductory Biology	
BIOL 1304	Human Biology	
BIOL 1305	General Biology	
BIOL 1306	Organismal Biology	
BIOL 2111	Human Anat/Physio Lab I	
BIOL 2113	Human Anat/Physio Lab II	
BIOL 2311	Human Anat/Physiology I	
BIOL 2313	Human Anat/Physiology II	
CHEM 1105	Laboratory for CHEM 1305	
CHEM 1106	Laboratory for CHEM 1306	
CHEM 1107	Intro General Chemistry Lab	
CHEM 1108	Intro Organic & Biochem Lab	
CHEM 1305	General Chemistry	
CHEM 1306	General Chemistry	
CHEM 1307	Intro to General Chemistry	
CHEM 1308	Intro Organic & Biochemistry	
ESCI 1101	Environmental Sci. Lab	
ESCI 1102	Non-major Lab for ESCI 1301	
ESCI 1202	Intro to Environment Science 2	
ESCI 1301	Intro to Environmental Sci	
GEOG 1106	Laboratory for GEOG 1306	
GEOG 1306	Physical Geography	
GEOL 1103	Lab for GEOL 1313	
GEOL 1104	Lab for GEOL 1314	
GEOL 1111	Principles of Earth Sci - Lab	
GEOL 1112	Laboratory for Geology 1212	
GEOL 1211	Principles of Earth Sciences	
GEOL 1212	Principles of Earth Science	
GEOL 1230	The Blue Planet	
GEOL 1231	Natural Hazards	
GEOL 1313	Intro to Physical Geology	
GEOL 1314	Intro to Historical Geol	
HSCI 2302	Fundamentals of Nutrition	
HSCI 2303	Wellness Dynamics	
MICR 2330	Microorganisms and Disease	

PHYS 1403	General Physics I
PHYS 1404	General Physics II
PHYS 2120	Laboratory for PHYS 2320
PHYS 2121	Laboratory for PHYS 2321
PHYS 2320	Introductory Mechanics
PHYS 2321	Introductory Electromagnetism

Total Hours 6

VI. Political Science (six hours)

Code	Title	Hours
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The objectives of the political science component are to expand students' knowledge of the origin and evolution of the U.S. and Texas political systems, focusing on the growth of political institutions, and on the constitutions of Texas and the United States; and to enhance their understanding of federalism, states rights, and individual civil liberties, rights, and responsibilities.

Required Courses:

POLS 2310	Introduction to Politics	3
POLS 2311	American Govern & Politics	3

Total Hours 6

VII. Social and Behavioral Sciences (three hours)

Code	Title	Hours
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The objective of the social and behavioral science component is to increase students' knowledge of how social and behavioral scientists discover, describe, and explain the behaviors and interactions among individuals, groups, institutions, events, and ideas. Such knowledge will better equip students to understand themselves and the roles they play in addressing the issues facing humanity.

Select one of the following: 3

ANTH 1301	Intro-Phys Anth/Archeolog
ANTH 1302	Intro-Cultural Anthropology
ANTH 1310	Cultural Geography
ANTH 2320	Intro to Linguistics
CE 2326	Econ for Engrs & Scientists
ASIA 2300	Asian American Studies
COMM 2350	Interpersonal Communication
COMM 2372	Mass Media and Society
ECON 2303	Principles of Macroeconomics
ECON 2304	Principles of Microeconomics
EDPC 1301	Introduction to Ed Psychology
EDU 1342	Action Research in Classrooms
ENGL 2320	Introduction to Linguistics
GEOG 1310	Cultural Geography
LEAD 2300	Community Service
LING 2320	An Intro. to Linguistics
LING 2340	Lang. Inside & Out: Sel Topics
PSYC 1301	Introduction to Psychology
SOCI 1301	Introduction to Sociology
SOCI 1310	Cultural Geography

Total Hours 3

VIII. Creative Arts (three hours)

Code	Title	Hours
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The objective of the visual and performing arts component is to expand students' knowledge and appreciation of the human imagination as expressed through works of visual art, dance, music, theatre and film. Through study in these disciplines, students will form aesthetic judgments and develop an appreciation of the arts as fundamental to the health and survival of any society.

Select one of the following: 3

ART 1300	Art Appreciation
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ARTH 1305	History of Art I	
ARTH 1306	History of Art II	
CHIC 1311	Chicana/o Fine Arts Appreciat	
DANC 1304	Dance Appreciation	
FILM 1390	Intro-Art of Motion Pict.	
MUSL 1324	Music Appreciation	
MUSL 1327	Jazz to Rock	
MUSL 2321	Music, Culture, and Society	
THEA 1313	Introduction to Theatre	
Total Hours		3

IX. Component Area Option (six hours)

Code	Title	Hours
The objective of the institutionally designated option component is to develop the critical thinking skills and academic tools required to be an effective learner. Special emphasis is placed on the use of technology in problem-solving, communications, and knowledge acquisition.		
Select two of the following:		6
BUSN 1301	Intro to Global Business	
COMM 1301	Public Speaking	
COMM 1302	Business/Profession Comm	
CS 1310	Intro-Computational Thinking	
CS 1320	Computer Programming Sci/Engr	
EL 1301	Eng Innovation and Leadership	
LEAD 1300	Introduction to Leadership	
SCI 1301	Inquiry in Math & Science	
UNIV 1301	Seminar/Critical Inquiry	
Total Hours		6

4-Year Sample Degree Plan

Code	Title	Hours
BBA INFORMATION SYSTEMS		
FRESHMAN		
Fall		
BUSN 1301	Intro to Global Business	3
RWS 1301	Rhetoric & Composition I	3
MATH 1320	Math for Social Sciences I	3
University Core Class		3
University Core Class		3
Spring		
ACCT 2301	Principles of Accounting I	3
ECON 2303	Principles of Macroeconomics	3
RWS 1302	Rhetoric & Composition 2	3
University Core Class		3
University Core Class		3
SOPHOMORE		
Fall		
ACCT 2302	Principles of Accounting II	3
ECON 2304	Principles of Microeconomics	3
University Core Class		3
University Core Class		3
University Core Class		3
Spring		
CIS 3345	Management Information Systems	3

MATH 2301	Math for Social Sciences II	3
QMB 2301	Business Stats & Analytics I	3
University Core Class		3
University Core Class		3
JUNIOR		
Fall		
ACCT 3321	Intermediate Accounting I	3
BLAW 3301	Legal Environment of Business	3
FIN 3310	Business Finance	3
MGMT 3303	Intro-Mgmt/Organizational Beha	3
OSCM 3321	Production/Operations Mgmt	3
Spring		
CIS 3301	Intro to Data Process & Prog	3
CIS 3350	Sys. Anal. & Des. for Bus. Ana	3
CIS 4365	Database Management	3
CIS 4370	Data Comm. & Network Manag.	3
QMB 3301	Business Stats & Analytics II	3
SENIOR		
Fall		
CIS 4320	Advanced Programming	3
CIS 4385	Info Sec. & Cybers. Analytics	3
CIS Elective		3
CIS Elective		3
CIS Elective		3
Spring		
Business Minor/Certificate		3
Business Minor/Certificate		3
Business Minor/Certificate		3
Business Minor/Certificate		3
MGMT 4300	Strategic Management	3
Total Hours		120