

COMPUTER INFORMATION SYSTEMS INFORMATION ASSURANCE AND SECURITY CONCENTRATION, BACHELOR OF BUSINESS ADMINISTRATION

Requirements

General Requirements

Code	Title	Credits
	Core Curriculum	42
	Required Support Courses	16
	Business Core	34
	Major Courses	16
	Concentration Requirements	12
Total Credits		120

- 50 of the 60 hours listed under business core and major courses must be completed at A&M-SA.
- Must receive a grade of "C" or better in all MATH, CSCI, and CISA courses and their associated prerequisites for satisfactory passing grade.
- A minimum average GPA of 2.25 must be maintained in all CISA & CSCI core and elective courses to remain in program. Applies to transfer courses also.
- Academic credits transferred as substitution courses must be completed within previous five years of admission to A&M-SA.
- CIP Code: 52.1201

Department probation and withdrawal:

For all departmental students in the Department of Computing and Cyber Security (CCS), to avoid department probation or withdrawal, the minimum GPA requirement in all CCS department courses (hereby called DCGPA) is 2.25. Courses with prefix CSCI, CISA, CETE, CSEC are departmental courses.

A student majoring in any of these disciplines is a departmental student: BS Computer Science (BSCS), BS Cyber Engineering Technology (BS-CETE), BS Cyber Security (BS-CSEC), BBA-Computer Information Systems (general and IA track) (BBA-CIS), and Bachelor of Applied Arts and Sciences (general and IA track) (BAAS-IT/BAAS-IT-IA).

Department probation

After a departmental student has completed four departmental courses, if the DCGPA drops below 2.25, the student will be placed on a department probation that term. In order to get off of department probation, a student must bring their DCGPA to 2.25 or higher by the following term. If the student does not bring their DCGPA to a 2.25 in one semester or term, the student will then be placed on a department withdrawal. A student can be on probation a maximum of two times. After that, the student will be placed on department withdrawal instead of department probation.

Department withdrawal

A student who has been placed on department probation and earns the DCGPA below 2.25 will be placed on department withdrawal. Because it is the first withdrawal, the student will be required to complete a departmental appeal, submit a personal letter, and an academic success plan of action to bring the DCGPA to 2.25 or higher by the following term. The plan has to be approved by the department chair or a designee. If a student is unable to bring the DCGPA to 2.25 or higher in one semester, the student will be required to select another major out of the department. A student can be on withdrawal only once. A second withdrawal will require a student to select a major out of the department.

Mandatory requirements for students on department probation and withdrawal

1. Meet with an Academic Success Coach for coaching on appropriate tutoring, study habits, etc.
2. Meet with their academic advisors and faculty mentors to seek guidance on computing course and careers.
3. Not register for more than 9 hours of departmental courses in the semester following probation/withdrawal.

Code	Title	Credits
Core Curriculum ¹		
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
MATH 1314	College Algebra	3
	or MATH 1324 Math for Bus/Soc Sci I	
	Life & Physical Science	3
	Life & Physical Science	3
	Language/Philosophy/Culture	3
	Creative Arts	3
	American History	3
	American History	3
	Government/Political Science	3
	Government/Political Science	3
ECON 2301	Principles of Macroeconomics	3
ECON 2302	Principles of Microeconomics	3
UNIV 1301	First Year Seminar	3
Subtotal:		42
Required Support Courses		
BUAD 1301	Business Principles	3
QMBS 2305	Business Statistics I	3
ACCT 2301	Principles of Financial Acct	3
ACCT 2302	Principles of Managerial Acct	3
CSCI 1436	Programming Fundamentals I	4
Subtotal:		16
Business Core (Upper Level) ²		
ACCT 3301	Accounting for Non-Acct Mjrs	3
BCOM 3304	Bus Communication	3
BLAW 3341	Business Law	3
QMBS 2301	Quantitative Skills-Business	3
QMBS 3360	Business Statistics II	3
CISA 2356	Systems Analysis and Design	3
FINC 3337	Finance for Non-Finc Majors	3
MGMT 3311	Principles of Management	3

MGMT 3320	Supply Chain & Operations Mgmt	3
MKTG 3311	Principles of Marketing	3
BUAD 4170	Business Capstone Lab	1
MGMT 4370	Decision Making and Bus Policy (to be completed in your last semester only)	3
Subtotal:		34
Major Courses		
CSCI 1437	Programming Fundamentals II	4
CISA 2306	Computer Networks	3
CISA 3309	Scripting Languages	3
CISA 3321	Information Security	3
CISA 3351	Database Design & SQL	3
Subtotal:		16
Concentration Requirements		
CISA 3325	Network Security	3
CISA 4323	Computer Forensics	3
CISA 4324	Penetration Testing	3
CISA 4326	Security & Operation Practicum	3
Subtotal:		12
Total Credits		120

All students must complete the University's Core Curriculum (<https://catalog.tamusa.edu/undergraduate/academic-policies-procedures/core-curriculum/>) and the specific requirements of the major. In some cases, a course that is required for a major may also be counted towards the Core Curriculum.

- 1 Other courses may satisfy core curriculum requirements. Courses listed under the core curriculum above are also specific degree requirements and are recommended in the core to expedite degree completion
- 2 2.0 overall GPA for major

Plan of Study

This suggested plan of study is intended to be used as a guide in conjunction with official degree requirements outlined in the catalog. While this plan demonstrates a course of study that covers eight semesters, each student's academic path is unique and your timeline may look different. Students should regularly consult with academic advisors as they plan their course schedules as course offerings may vary.

Course	Title	Credits
First Year		
First Semester		
ENGL 1301	Composition I ¹	3
HIST 1301	US History to 1865 ¹	3
	Life & Physical Science	3
MATH 1314	College Algebra ¹	3
	or MATH 1324 or Math for Bus/Soc Sci I	
BUAD 1301	Business Principles	3
UNIV 1301	First Year Seminar	3
Credits		18
Second Semester		
ENGL 1302	Composition II ¹	3
HIST 1302	US History from 1865 ¹	3

	Life & Physical Science ¹	3
	Creative Arts ¹	3
CSCI 1436	Programming Fundamentals I	4
Credits		16

Second Year

First Semester

GOVT 2305	Federal Government ¹	3
ACCT 2301	Principles of Financial Acct ¹	3
	Language/Philosophy/Culture ¹	3
CSCI 1437	Programming Fundamentals II	4
ECON 2301	Principles of Macroeconomics ¹	3
Credits		16

Second Semester

GOVT 2306	Texas Government ¹	3
ACCT 2302	Principles of Managerial Acct ¹	3
ECON 2302	Principles of Microeconomics ¹	3
QMBS 2305	Business Statistics I	3
QMBS 2301	Quantitative Skills-Business	3
Credits		15

Third Year

First Semester

ACCT 3301	Accounting for Non-Acct Mjrs	3
BCOM 3304	Bus Communication	3
QMBS 3360	Business Statistics II	3
CISA 2306	Computer Networks	3
CISA 3309	Scripting Languages	3
Credits		15

Second Semester

FINC 3337	Finance for Non-Finc Majors	3
CISA 3356		
MGMT 3311	Principles of Management	3
MKTG 3311	Principles of Marketing	3
BLAW 3341	Business Law	3
Credits		12

Fourth Year

First Semester

MGMT 3320	Supply Chain & Operations Mgmt	3
CISA 3351	Database Design & SQL	3
CISA 3321	Information Security	3
CISA 3325	Network Security	3
Credits		12

Second Semester

CISA 4326	Security & Operation Practicum	3
MGMT 4370	Decision Making and Bus Policy	3
BUAD 4170	Business Capstone Lab	1
CISA 4323	Computer Forensics	3
CISA 4324	Penetration Testing	3
Credits		13
Total Credits		117

¹ Course may be taken at a community college.

² Students successfully completing this program are eligible to get the NSA Cyber Education Certificate.

³ For transfer students, 40 hours of Major courses + Major electives from A&M-SA are required.