INFORMATION TECHNOLOGY/INFORMATION ASSURANCE AND SECURITY CONCENTRATION, BACHELOR OF APPLIED ARTS AND SCIENCES

Requirements General Requirements

Code	Title	Credits
Core Curric	eulum	42
Required S	upport Courses	12
Technical/\	Vocational Credits	18-42
IT Emphasi	is Area	36
Electives		0-12
Total Credi	ts	120

- The 36 upper-division hours required for this degree must be completed at A&M-SA to satisfy residency requirements.
- 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 courses cannot be counted towards technical/vocational credits.
- Technical/ vocational credits from non-approved colleges requires deptartment chair and dean approval.
- Academic technical/vocational credits transferred as substitution courses must be completed within previous five years of admission to A&M-SA.
- · CIP Code: 30.9999

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

- 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		
ENGL 1301	Composition I	3
ENGL 1302	Composition II	3
or ENGL 2311	Technical Writing	
MATH 1342	Introductory Statistics	3
Life & Physical So	cience	3
Life & Physical So	cience	3
Language /Philos	ophy/Culture	3
Creative Arts		3
American History		3
American History		3
Government/Polit	tical Science	3
Government/Polit	tical Science	3
Social & Behavior	al Science	3
MATH 1314	College Algebra	3
Component Option	n Course from Approved List	3
Subtotal:		42
Required Support	Courses	
CSCI 1436	Programming Fundamentals I	4
or CSEC 1436	Python Programming I with Lab	
CSCI 1437	Programming Fundamentals II	4
or CSEC 1437	Python Programming II with Lab	
UNIV 1301	First Year Seminar	3
CISA 4101	Jag Tracks III: Cmptr Info Sys	1
or CSEC 4101	Ethical Issues in Computing	
Subtotal:		12
Technical/Vocation	onal Credits	
En bloc credits m	ust be taken in the field of Information Techno	logy18-42

area.

Subtotal:	18-42	
IT Empahsis Area		
All courses below	must be taken at A&M-SA	
BCOM 3304	Bus Communication	3
CISA 2306	Computer Networks	3
or CSEC 2306	Computer Networks	
CISA 2356	Systems Analysis and Design	3
or CSEC 2356	Systems Analysis and Design	
CISA 3309	Scripting Languages	3
or CSEC 3309	Scripting Languages	
CISA 3321	Information Security	3
or CSEC 3321	Information Security	
CISA 3351	Database Design & SQL	3
or CSEC 3351	Systems Analysis and Design	
CISA 4358	Senior Project and Seminar	3
or CSEC 4358	Senior Project and Seminar	
Information Assur	ance & Security Electives	
CISA 3325	Network Security	3
or CSEC 3325	Network Security	
CISA 4323	Computer Forensics	3
or CSEC 4323	Computer Forensics	
CISA 4324	Security Risk Analysis	3
or CSEC 4324	Penetration Testing	
CISA 4326	Security & Operation Practicum	3
or CSEC 4326	Security & Operation Practicum	
Upper Division CI	SA, CSCI or CSEC Course	3
Subtotal:		36
Electives		
As needed to com	nplete 120 credit hours required	0-12
Total Credits		120

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.

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.

First Year

First Semester	•	Credits
ENGL 1301	Composition I ¹	3
HIST 1301	US History to 1865 ¹	3
Life & Physical Science ¹		3
MATH 1314	College Algebra ¹	3
Social & Behav	rioral Science ¹	3
UNIV 1301	First Year Seminar	3
	Credits	18

ENGL 1302	Composition II ¹	3
or ENGL 2311	or Technical Writing	0
HIST 1302	US History from 1865 ¹	3
CSCI 1436 or CSEC 1436	Programming Fundamentals I or Python Programming I with Lab	4
Life & Physical Sc	ience 1	3
Creative Arts ¹		3
	Credits	16
Second Year		
First Semester		
GOVT 2305	Federal Government ¹	3
MATH 1342	Introductory Statistics ¹	3
CSCI 1437	Programming Fundamentals II	4
or CSEC 1437	or Python Programming II with Lab	
Language /Philos	ophy/Culture ¹	3
	Credits	13
Second Semester		
GOVT 2306	Texas Government ¹	3
Component Option	n Course from Approved List ¹	3
Technical Vocatio	nal Credits ¹	3
Technical Vocatio	nal Credits ¹	3
Technical Vocatio	nal Credits ¹	3
	Credits	15
Third Year		
First Semester		
Technical Vocatio	1	
recinited vocatio	nal Credits '	3
Technical Vocatio	1	3
	nal Credits ¹	
Technical Vocatio	nal Credits ¹ nal Credits ¹	3
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Technical Vocatio Technical Vocatio Technical Vocatio Technical Vocatio Technical Vocatio Second Semester Technical Vocatio Technical Vocatio Technical Vocatio CISA 2306 or CSEC 2306 BCOM 3304 CISA 3309 or CSEC 3309 Fourth Year First Semester CISA 2356 or CSEC 2356	nal Credits 1 nal Credits 1 nal Credits 1 nal Credits 1 Credits nal Credits nal Credits 1 nal Credits 1 Computer Networks or Computer Networks Bus Communication Scripting Languages or Scripting Languages Credits Systems Analysis and Design or Systems Analysis and Design	3 3 3 15 3 3 3 3 15 3 3 3 3 3 3 3

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Information Security

Network Security

or Information Security

or Network Security

CISA 3321

CISA 3325

or CSEC 3321

or CSEC 3325

CISA 4101	Jag Tracks III: Cmptr Info Sys	1
or CSEC 4101	or Ethical Issues in Computing	
	Credits	13
Second Semester	r	
CISA 4326 or CSEC 4326	Security & Operation Practicum or Security & Operation Practicum	3
CISA 4358 or CSEC 4358	Senior Project and Seminar or Senior Project and Seminar	3
CISA 4323 or CSEC 4323	Computer Forensics or Computer Forensics	3
CISA 4324 or CSEC 4324	Security Risk Analysis or Penetration Testing	3
Upper Division CI	SA/CSCI/ CSEC Course	3
	Credits	15
	Total Credits	120

 $^{^1}$ Course may be taken at a community college. 2 For transfer students, 40 hours of Major courses + Major electives from A&M-SA are required.