

BAAS: INFORMATION TECHNOLOGY/INFORMATION ASSURANCE AND SECURITY CONCENTRATION

Requirements

General Requirements

Code	Title	Credits
	Core Curriculum	42
	Required Support Courses	12
	Technical/Vocational Credits	18-42
	IT Emphasis Area	36
	Electives	0-12
Total Credits		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 department 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

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.

Department probation and withdrawal:

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

A student majoring in any of these disciplines is a departmental CCS student: BS Computer Science (BS_CSCI), BS Cyber Engineering Technology (BS_CYBE), BS Cybersecurity (BS_CYBR), BAAS Information Technology (BAAS_ITEC), and BAAS IT/Info Assurance and Security (BAAS_ISEC).

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
	or ENGL 2311 Technical Writing	
MATH 1342	Introductory Statistics	3
	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
	Social & Behavioral Science	3
MATH 1314	College Algebra	3
	Component Option Course from Approved List	3
Subtotal:		42
Required Support Courses		
CSEC 1436	Cyber Security Prog I + Lab	0-4
CSEC 1437	Cyber Security Prog II + Lab	0-4

UNIV 1301	First Year Seminar	3
CSCI 4311	Technical Communication	3
Subtotal:		6-14
Technical/Vocational Credits		
En bloc credits must be taken in the field of Information Technology ¹ area.		
Subtotal:		18-42
IT Empahsis Area		
All courses below must be taken at A&M-SA		
BCOM 3304	Bus Communication	3
CSEC 2306	Computer Networks	3
CSEC 2356	Systems Analysis and Design	3
or CISA 2356	Systems Analysis and Design	
CSEC 3309	Scripting Languages	3
CSEC 3321	Information Security	3
CSEC 3351	Database Design	3
CSEC 4358	Senior Project and Seminar	3
CSEC 3325	Network Security	3
<i>Information Assurance & Security Electives</i>		
CSEC 4323	Computer Forensics	3
CSEC 4324	Penetration Testing	3
CSEC 4326	Security & Operation Practicum	3
Upper Division CSCI or CSEC or CETE Course		3
Subtotal:		36
Electives		
As needed to complete 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 & Behavioral Science ¹		3
UNIV 1301	First Year Seminar	3
Credits		18

Second Semester

ENGL 1302	Composition II ¹	3
or ENGL 2311	or Technical Writing	
HIST 1302	US History from 1865 ¹	3

CSEC 1436	Cyber Security Prog I + Lab	0-4
Life & Physical Science ¹		3
Creative Arts ¹		3
Credits		12-16

Second Year

First Semester

GOVT 2305	Federal Government ¹	3
MATH 1342	Introductory Statistics ¹	3
CSEC 1437	Cyber Security Prog II + Lab	0-4
Language /Philosophy/Culture ¹		3

Credits		9-13
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Second Semester

GOVT 2306	Texas Government ¹	3
Component Option Course from Approved List ¹		3
Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		3

Credits		15
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Third Year

First Semester

Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		1

Credits		13
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Second Semester

Technical Vocational Credits ¹		3
Technical Vocational Credits ¹		3
CSEC 2306	Computer Networks	3
BCOM 3304	Bus Communication	3
CSEC 3309	Scripting Languages	3

Credits		15
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Fourth Year

First Semester

CSEC 2356	Systems Analysis and Design	3
or CISA 2356	or Systems Analysis and Design	
CSEC 3351	Database Design	3
CSEC 3321	Information Security	3
CSEC 3325	Network Security	3
CSCI 4311	Technical Communication	3

Credits		15
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Second Semester

CSEC 4326	Security & Operation Practicum	3
CSEC 4358	Senior Project and Seminar	3
CSEC 4323	Computer Forensics	3
CSEC 4324	Penetration Testing	3
Upper Division CSCI/ CSEC /CETE Course		3

Credits		15
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Total Credits		112-120
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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.