Bachelor of Applied Science, Information Security and Assurance

The goal of academic advising is to further enhance the educational mission of the university, and create quality, accessible advising partnerships with all students in a positive environment that supports student success. This advising sheet is for tracking purposes toward degree completion and is subject to change. Students also may track their academic progress via STAR Degree Check through STAR GPS at https://www.star.hawaii.edu/. Academic Advising appointments may be scheduled by calling 808-689-2689 or toll-free from neighbor islands at 866-299-8656.

Graduation Requirements (see the 2020-21 catalog for any additional graduation requirements):

☐ 45 Upper Division Credits Minimum
☐ 120 Total Credits Minimum
☐ 30 UHWO Credits
☐ 3 Upper Division Writing Intensive Courses
☐ Focus Requirements (OC, HAP, ETH)
☐ 2.0 *UHWO GPA*
☐ 2.0 *CONCENTRATION GPA*

General Education Requirements: 31 credits

Credits	Course Alpha / Number / Title
3	Foundations Written Communications (FW) ENG 100 Composition I
3	Foundations Symbolic Reasoning (FS) **OR** Foundations of Quantitative Reasoning (FQ) MATH 115 Statistics
6	Foundations Global and Multicultural Perspectives (FG): 6 credits from two ***different*** groups (A, B, C): *Group A: Primarily before 1500 CE (e.g.; HIST 151 or ANTH 151) *Group B: Primarily after 1500 CE (e.g.; HIST 152 or ANTH 152) *Group C: Pre-history to present
6	Diversification Arts, Humanities & Literature (DA, DH, DL): 6 credits from two different areas
3	Diversification Social Sciences (DS): 6 credits from two different areas
3	Diversification Social Sciences (DS): Different area from above.
3	Diversification Natural Sciences (DB, DP, DY): 3 credits from the biological sciences (DB):
3	3 credits from the physical sciences (DP):
1	1 credit of laboratory (DY):

ISA Lower Division Concentration Requirements: 18 credits

Credits	Course Alpha / Number / Title
3	ICS 111 Introduction to Computer Science I
3	ICS 129 Introduction to Databases
3	ICS 184 Introduction to Networking
3	ICS 211 Introduction to Computer Science II
3	ICS 240 Operating Systems
3	ISA 275 Security Essentials **OR** CSNT 275 Security Essentials

ISA Lower Division Math Requirement: 8-11 credits

Credits	Course Alpha / Number / Title
0 or 3	MATH 115 Statistics *(Can also satisfy FS/FQ General Ed Requirement)*
4	MATH 241 Calculus I
4	MATH 242 Calculus II

Applied Science Core Requirements: 12-15 credits

Credits	Course Alpha / Number / Title
3	ICS 101 Digital Tools for Info World
3	ENG 200 Composition II, ENG 209, ENG 210, ENG 215 (or equivalent)
3	SSCI 210 Statistical Analysis I (Pre: Math 115 with a C- or higher)
3	SSCI 301 Methods & Techniques in Social Science Research

Credits	Course Alpha / Number / Title
0 or 3	300-400 level course with an ETH designation (*may be combined with other requirements)

ISA Upper Division Concentration Requirements: 18 credits

Credits	Course Alpha / Number / Title
3	ISA 320 Fundamentals of Secure Software Programming
3	ISA 330 Introduction to Proactive System Security
3	ISA 340 Introduction to Digital Forensics
3	ISA 400 Management of Information Security
3	ISA 450 Modern Cyber Conflicts
3	ITS 410 IT Project Management

ISA Upper Division Electives: 18 credits

Complete 18 credits of 300 or higher-level ISA, CSNT, ITS, MATH, PUBA, or Business Area* electives
**Business Area is meant to reflect any course in core or concentration areas within the BA in Business Administration Programs including ACC, BUSA, ECON, FIN, FMGT, HOST, MGT, or MKT*

•*ISA students may choose an optional CSNT focus area by completing five 300-level CSNT electives (15 credits) at Honolulu Community College as part of the National Center of Academic Excellence in Cyber Defense Education (CAE-CD) designation and partnership.*

Credits	Course Alpha / Number / Title
3	*Recommended: ISA 360 Cyber Competitions (Fall)*
3	*Recommended: ISA 430 Cybersecurity of SCADA (Spring)*
3	*Recommended: ISA 480I Cyber Investigations (Spring)*
3	*Recommended: ISA 480R Cyber Detection and Response (Fall)*
3	*Recommended: BUSA 342 Practical Programming: Python*
3	*Recommended: BUSA 386 (WI)*

Capstone Requirement: 3 (UD) credits

Credits	Course Alpha / Number / Title
3	WI APSC 486S Senior Project or WI APSC 490S Senior Practicum

Elective Requirements: 6-12 credits

*Check with your College Success Advisor to confirm how many elective credits are needed.

Credits	Course Alpha / Number / Title
3	*Possible Upper Division 300-400 level Elective*
3	*Recommended: additional MATH up to 15 credit hours (see below)*
3	
3	

•*All ISA students are encouraged to complete 15 credit hours of mathematics that include math statistics (MATH 115) and both differential and integral calculus (MATH 241 and 242) in order to promote eligibility for specialized professional employment opportunities in cybersecurity and scientific career fields.*

NOTES: Dr. Matthew Chapman is the faculty contact for this program. For additional information, Dr. Chapman may be contacted at mchapman@hawaii.edu or at (808) 689-2333.