UNIVERSITY OF HAWAI'I
MEMORANDUM OF AGREEMENT

KAPI'OLANI COMMUNITY COLLEGE
UNIVERSITY OF HAWAI'I – WEST O'AHU

BACHELOR OF APPLIED SCIENCE
CONCENTRATION IN
INFORMATION SECURITY AND ASSURANCE (ISA)

The purpose of this degree pathway is to facilitate a smooth transition for students entering Kapi'olani Community College (KapCC) or the University of Hawai'i – West O'ahu (UHWO) as they work toward obtaining the Bachelor of Applied Science (BAS) degree with a concentration in Information Security and Assurance (ISA). This recommended pathway is designed to serve student career and educational objectives. In particular, this agreement will facilitate the transfer of students in the Associate in Science (AS) in Information Technology (ITS) program at KapCC to the BAS program with a concentration in ISA at the UHWO. While this academic pathway represents the most efficient coursework progression from the AS program at KapCC through the BAS program at UHWO, individual course substitutions may be made on a case-by-case basis when recommended courses are not available; however, all core, concentration, general education, focus, and graduation requirements must still be met in those individual cases.

As part of the dual enrollment agreement between KapCC and UHWO, and under the terms of this agreement, the University of Hawai'i-West O'ahu agrees to:

1. Identify academic advisors at UHWO who will partner with KapCC's advisors to ensure timely and accurate advising information on pre-admission, admission, degree requirements, and other related advising information.
2. Identify a UHWO faculty member who will serve as the faculty advisor to students who are part of this articulation in the ISA concentration.
3. Inform students that financial aid may be available through either institution as the student identifies his/her home campus each semester, and that students must follow the financial aid policies and procedures at that home school in order to be eligible for financial aid.
4. Meet with KapCC faculty and/or administration minimally every two years, or on an as-needed basis, to discuss potential and planned curriculum changes.

5. Continue discussions with KapCC on dual enrollment processes to benefit the matriculation and transfer processes for ISA students.

As part of the dual enrollment agreement between KapCC and UHWO, and under the terms of this agreement, KapCC agrees to:

1. Identify a program counselor at KapCC who will partner with UHWO's advisors to ensure timely and accurate advising information on pre-admission, admission, degree requirements, and other related advising information.
2. Place a notation on the advisor notes in STAR to identify AS in Information Technology students who are in the process of completing the AS degree and are a part of this articulation.
3. Identify a KapCC faculty member who will serve as the faculty advisor to students who are part of this articulation in the ISA concentration and consult with UHWO's admissions personnel regarding students on an as-needed basis.
4. Inform students that financial aid may be available through either institution as the student identifies his/her home campus each semester, and that students must follow the financial aid policies and procedures at that home school in order to be eligible for financial aid.
5. Meet with UHWO faculty and/or administration minimally every two years, or on an as-needed basis, to discuss potential and planned curricular changes.
6. Continue discussions with UHWO on dual enrollment processes to benefit the matriculation and transfer processes for ISA students.

Curricular requirements for students following the articulated pathway are included as Attachments I through IV. Attachment I details the coursework recommendations to fulfill the UHWO general education and focus requirements for the BAS with concentration in ISA. Attachment II identifies the lower division requirements at KapCC for the ISA concentration. Attachment III lists the BAS core and upper-division requirements at UHWO. Attachment IV accounts for graduation requirements at UHWO.

This agreement will be reviewed biannually during the spring semester of odd years (beginning in 2019) in order to support the transfer, matriculation and graduation of students from KapCC and UHWO. Students must graduate from KapCC with the AS in Information Technology to be eligible for the benefits of the Agreement. This agreement will go into effect academic year 2016-2017.

Approvals

University of Hawai'i – West O'ahu

Doris Ching, Interim Chancellor

Jacqueline Honda
Acting Vice Chancellor for Academic Affairs

Linda Randall
Acting Chair of Business Administration

Matthew Chapman, Assistant Professor
Information Technology & Security
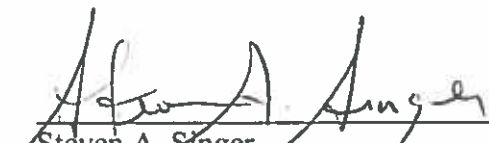
Kapi'olani Community College

Leon Richards, Chancellor

Louise Pagotto
Vice Chancellor for Academic Affairs

John Richards,
Dean, Career & Technical Education
Culinary, Hospitality, Business, Legal &
Technology

Trude Pang
Chair, Business, Legal and Technology

Hal Corcoran
Coordinator, Information Technology

Steven A. Singer
Professor, Information Technology

Date of Agreement: April 4, 2016

Effective Date: ___Fall 2016___

Revised: 2/29/2016

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General Education Requirements

General Education Requirements for BAS ISA Concentrations – 31 credits

Foundations (12 credits)

FW	3	**Foundations Written Communication** - ENG 100 Composition I, or ESL 100 (Note: Kap CC A.S. required class)
FS	3	**Foundations Symbolic Reasoning** (Note: Kap CC Math 103 meets this requirement)
FG	6	**Foundations Multicultural Perspectives** -Need 6 credits from two different groups (A,B,C)

Diversification (19 credits)

DH, DA, DL	3	**Diversification Arts, Humanities, Literature** - Need 6 credits from two different areas. Recommended: (Kap CC HWST 107 meets this requirement). Upper-division 300 or 400 level courses are recommended whenever possible to count toward the required 45 credits of upper-division coursework.
	3	**Diversification Arts, Humanities, Literature** – Group different from above.
DS	3	**Diversification Social Sciences** – Need 6 credits from two different areas. Recommended: **SSCI 301** (also counts toward BAS core requirement)
DS	3	**Diversification Social Sciences** – Group different from above. Recommended: (Note: Kap CC ECON 130 or 131 meet this requirement)
DB	3	**Diversification Natural Science** – 3 credits from the Biological Sciences
DP	3	**Diversification Natural Science** – 3 credits from the Physical Sciences (DP)
DY	1	**Diversification Natural Sciences** – Lab for either DB or DP above

Focus Requirements

1. Hawaiian, Asian, and Pacific Issues (HAP): 1 class
2. Oral Communications (OC): 1 class
3. Contemporary Ethical Issues (ETH): 1 class
4. Writing-Intensive (WI): 3 classes (upper division level, two classes outside of the capstone class)

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Lower Division Requirements at KapCC for ISA Concentration (45 credits):

ITS Core Requirements (39 credits)

3	ICS 100/101	Computing Literacy & Apps or Digital Tools for Info World
3	ITS 122	Cyber Security Fundamentals
3	ITS 124	Small Business Networking
3	ITS 128	Introduction to Problem Solving and the Programming Process
3	ITS 129	Introduction to Databases
3	ITS 142	Network Security
3	ITS 144	Business PC System Maintenance/Support and OS Installation
3	ITS 148	Visual Studio NET I
3	ITS 149AD	Database Administration I
3	ITS 227	Web Site Development
3	ITS 293	Information Technology Program Internship

Two courses selected from:

3	ITS 222	Cyber Attacks and Defense
3	ITS 224	Help Desk Support Practices
3	ITS 228	Visual Studio NET II
3	ITS 229AD	Database Administration II

Specialization Requirements (6 Credits)

3	BUS 120	Principles of Business
	OR	
	ACC 201	Introduction to Financial Accounting
3	SP 151 or SP 251	Public Speaking / Principles of Effective Public Speaking

(Note: Kap CC courses ENG 100, MATH 103, HWST 107, ECON 130, and NS elective are included in the previous General Education Requirements section. This is an additional 15 credits, for a total of 60 credit hours)

BAS Core &Upper Division Requirements (45 credits)

Bachelor of Applied Science Core Requirements (12 credits):

3	ENG 200		Composition II
	or ENG 209		Business Writing
	or ENG 210		Writing Term Papers
	or ENG 215		Research/Argumentative Writing
3	SSCI 210		Statistical Analysis I
	or BUSA 320		Statistics for Decision-Making (Math 103 is pre-requisite)
	or PUBA 341		Statistics for Decision-Making in Public Administration
(3)*	SSCI 301	(DS)	Methods and Techniques in Social Science Research
3	PUBA/BUSA 481		Ethics and Administration (ETH focus)
	or PUBA 477		Ethics in Healthcare Administration (ETH focus)
	or MGT 301		Business Ethics (ETH focus)
	or another 300-400 level course with the ETH identifier.		
3	Capstone Course:		
	APSC 486 or APSC 490		Senior Project (WI) / Senior Practicum (WI)

* *DS under General Education*

Note: BAS Computer Literacy requirement is waived based on overall computer competencies in the ISA concentration.

AND

Upper-Division ISA Core Requirements at UHWO (33 credits):

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	CENT/ITS 410	IT Project Management (WI)

Upper Division Focus Area Electives at UHWO

15	UHWO electives	300 or higher level Business Area*, PUBA, CENT, or ISA courses not used to meet any other requirement.

* Business Area is meant to reflect any course in core or concentration areas within Business Administration including ACC, BUSA, FIN, MGT, or MKT.

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Graduation Requirement – 45 credits of upper division course work met for ISA:

3	SSCI 301	Methods and Techniques in Social Science Research (satisfies a core requirement)
3	PUBA 341	Statistics for Decision-Making in Public Administration;
	or BUSA 320	Statistics for Decision-Making [Math 103 is pre-requisite for BUSA 320 (satisfies a core requirement)
3	PUBA/BUSA 481	Ethics and Administration or another 300-400 level course with an ETH identifier (satisfies a core requirement)
3	APSC 486/490	Capstone: Senior Project/Senior Practicum (satisfies a core requirement)
3	CENT/ITS 410	IT Project Management
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
15	UHWO electives	300 or higher level Business Area*, PUBA, CENT, or ISA courses not used to meet any other requirement.

* Business Area is meant to reflect any course in core or concentration areas within Business
Administration including ACC, BUSA, FIN, MGT, or MKT.

Foundations	**(12 credits)**
Diversification	**(19 credits)**
Lower Division IT Concentration	**(45 credits)**
BAS Core Requirements and Upper Division ISA Requirements	**(45 credits)**

MINIMUM TOTAL CREDITS for BAS in ISA: 121

The student is responsible for the completion of the minimum total credits above, 45 upper division
credits as indicated, the 30 credit residency requirement, and focus area requirements.