UNIVERSITY OF HAWAI'I
CODE REQUEST FORM FOR ACADEMIC PROGRAM CODES

REQUESTOR CONTACT INFORMATION	
Date: 12/16/2013	Effective term of request (Semester-Year): Spring 2014
Name: James L. Cromwell	Title: Director of Enrollment
Campus: UH West Oahu	Office/Department: Enrollment Services
Phone: 689-2909	Email: cromwell@hawaii.edu

1. PROGRAM CODE, MAJOR CODE, CONCENTRATION CODE   Banner forms: SMAPRLE, SOACURR, STVMAJR

Institution: UH West Oahu (WOA) ☑	College: UH West Oahu	Department: Applied Science

☑ New program code   ☐ Change/replace existing program code:

Level: ☒ Undergraduate   ☐ Graduate   ☐ First-Professional   ☐ Post-Baccalaureate   ☐ Other:

Degree: Bachelor of Arts	Certificate:

If requesting an existing Major code and/or Concentration code in Banner:

Existing Major: Code   Description   Existing Concentration: Code   Description

If requesting a new ☐ Major code or ☒ Concentration code that does not exist in Banner:

New Code [4 char/space limit]:   ISA   Description [30 char/space limit]: Information Security Assurance

If a similar major/concentration code exists in Banner, please list the code:

Is this major/concentration code being used the same way at other UH campuses? New

Is 50% or greater of the classes in this program offered at a location other than the Home Campus?   ☑ Yes   ☐ No
(Please consult your Financial Aid Officer on Program Participation Agreement impact)

Is this program/major/certificate financial aid eligible?   ☑ Yes   ☐ No   *(Financial Aid Officer consultation required for all new program codes)*

Should this program be available for applicants to select as their planned course of study on the online application?   ☑ Yes   ☐ No
(If yes, students may select the code as their only program of study.)

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Replacing or eliminating an existing program code:

If replacing an existing program code, are current students "grandfathered" under the old code? ☐ Yes ☐ No

Should the old program code be available for use in Banner? ☐ Yes ☐ No

Will the old program code be available for:

Banner Module	Yes	No	Ending Term (Semester-Year)
Online Application	☐	☐	_____
Recruitment	☐	☐	_____
Admissions	☐	☐	_____
General Student	☐	☐	_____
Academic History	☐	☐	_____

2. CERTIFICATES ONLY:

Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)? ☐ Yes ☐ No
(Please consult your Financial Aid Officer or see: http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html)

For new certificates approved by the Chancellor, the related BOR authorized academic program is:

3. NEW CAMPUS, COLLEGE, DIVISION, OR DEPARTMENT CODE   Banner forms: STVCAMP, STVCOLL, STVDIVS, STVDEPT

Campus code [3 char]:	Campus description [30 char/space limit]:
College code [2 char]:	College description [30 char/space limit]:
Division code [4 char/space limit]:	Division description [30 char/space limit]:
Department code [4 char/space limit]:	Department description [30 char/space limit]:

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4. NEW COURSE SUBJECT CODE (Subject Alpha)	Banner form: STVSUBJ
College:	Department:
Subject code [4 char/space limit]:	Subject description [30 char/space limit]:

5. NEW MINOR (Minor codes are listed on the Major code table)	Banner form: STVMAJR
Minor Code [4 char/space limit]:	Minor Description [30 char/space limit]:

Please briefly describe your request and explain why you are requesting the code(s):

UH West Oahu will be offering a new concentration in Information Security and Assurance.

SUPPORTING DOCUMENTATION

Please see the **Code Request Guide** for the required supporting documents to be submitted. Documents submitted with this form:

☐ Board of Regents meeting minutes and supporting documents provided to the BOR

☐ Memo from UH President

☐ Memo from Chancellor

☐ Curriculum (required for requests for new programs/majors/minors/certificates)

☐ Gainful Employment Program notification to the US Department of Education

☐ Other: _____

CRF 325

Rev. 07-2011

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CAMPUS VERIFICATION		
Requestor Signature _[signature]_	Date _12/16/13_	
Registrar (If different from Requestor)		
Robyn Oshiro	_[signature]_	_12/19/2013_
Print name	Signature	Date
Email/memo in lieu of Registrar's signature may be attached		
Financial Aid Officer (Financial Aid Officer consultation required for all new program codes)		
LESTER ISHIMOTO	_[signature] M._	_12/16/13_
Print name	Signature	Date
Email/memo in lieu of Financial Aid Officer's signature may be attached		
For Community Colleges, verification of consultation with OVPCC Academic Affairs:		
Print name	Signature	Date
Email/memo in lieu of signature may be attached		

Send completed form and supporting documentation to:
    Institutional Research and Analysis Office (IRAO)
    1633 Bachman Place   Email: iro-mail@lists.hawaii.edu
    Sinclair Annex 2, Room 4   Fax: 808-956-9870
    Honolulu, HI 96822   Phone: 808-956-7532

After all required forms and supporting documents have been submitted, please allow at least two weeks for processing by IRAO and Banner Central.

FOR INTERNAL USE ONLY	Date form/docs received:
Program code [12]:	Program Description [30]:
CIP code [6]:	CIP description [30]:

University of Hawai'i – West O'ahu
FORM FOR ADDITION OR DELETION OF ACADEMIC CONCENTRATION OR CERTIFICATE PROGRAM
Before completing this form, refer to the "UH West O'ahu Curriculum Committee Procedures for Additions, Deletions, and Modifications of Courses, Programs, and Requirements."

Action Requested (√ one):
  □ Delete Program **X** Add Program
1. If deleting a program, indicate:

2. If adding a program, indicate:
 a. Name of proposed program:
Bachelor of Applied Sciences with a Concentration in Information Security & Assurance

 b. Program
The purpose of this proposal is to create a new concentration within the Bachelor of Arts in

Applied Sciences (BAS). Current concentrations include Respiratory Care (RESP); Culinary Management (CULM); Computers, Electronics, and Networking Technologies (CENT) and Information

Technology (IT). From the perspective of UHWO requirements, the proposed concentration

in Information Security & Assurance has been synergistically coordinated with the existing CENT program. CENT involves collaboration with Honolulu Community College, and is computer hardware oriented, while the IA program builds upon this framework with specific focus on information security and assurance. Both concentrations take advantage of the technical expertise of community college faculty, while offering students the opportunity to complete a baccalaureate degree with specific focus on Information Technology Hardware or Information Assurance needs.

 c. Program requirements (e.g. number of credits required, specific courses required, etc.)
Details of the program requirements are contained in the appended advising sheet. The program requirements combine lower division and upper division courses at HCC with

General Education, Bachelor of Applied Sciences courses, and ISA courses at UHWO.

 d. Proposed courses for the program

The majority of the courses in this program are currently being taught at either the CCs or UHWO. Several new courses will be taught at UHWO as part of this program. CC1s for all new courses for this program are being simultaneously submitted to the curriculum committee for consideration.

Note: For addition of courses, forms CC1 should already have been completed and submitted.

3. Will the proposed program addition require any additional resources? ☐ No X Yes
   If "yes," please explain:

   Yes, there will be additional advising time for faculty and student services staff. Since the
   expertise to teach all of the new courses is not currently resident at UHWO, lecturers and
   industry professionals will be required to teach several of these new courses. Additionally,
   since most of the courses for the program are currently being taught as part of other
   programs; additional resource needs should be minimal. At least initially, this will be a small
   program, so it should minimally impact enrollment in these or other courses. As this program
   grows (along with others), it is possible additional sections of some courses may be required.

   Justification or rationale for program action (deletion or addition)

   The Computing, Electronics and Networking Technologies (CENT) faculty at Honolulu
   Community College and the CENT faculty at UHWO have, in conjunction with each other,
   have recently received certification of their coursework as meeting the Committee on
   National Security Systems (CNSS) Training Standards. Specifically certification was
   received against CNSS Training Standards 4011 (National Training Standard for Information
   System Security, INFOSEC, Professionals) and 4012 (National Information Assurance
   Training Standard for Senior System Managers). This certification of coursework was a
   necessary prerequisite for application as a National Center of Academic Excellence in IA
   Education (CAE/IAE). The CAE/IAE program is jointly sponsored by the National Security
   Administration (NSA) and the Department of Homeland Security (DHS) to promote higher
   education in IA and thus reduce our national information infrastructure vulnerability.
   Additionally, students attending CAE/IAE designated schools have additional opportunities
   for scholarships and grants through the Department of Defense Information Assurance
   Scholarship Program and the Federal Cyber Service Scholarship for Service Program.

   Many students in the current CENT program would like to achieve a degree in Information
   Assurance to improve their marketability in the current workforce environment. Additionally,
   a lot of interest in this program has been shown by existing information workers to improve
   their upward mobility in the workplace, and to offer them more opportunities for graduate
   education or career plans. Thus, to better serve the needs of our students and the information
   technology market in Hawaii, UHWO proposes a Bachelor of Applied Sciences degree, with

   a concentration in Information Security & Assurance. Students will take the majority of their technical
   courses and several General Education courses at HCC, and will transfer to UHWO (or by
   dual enrollment) to complete their remaining General Education courses, UHWO graduation

   requirements, upper division courses in ISA, and a senior practicum or project course.
   Support for such changes was emphasized in conversations with members of industry
   (private and Department of Defense) and observations of the latest job trends locally and

   nationally have suggested needed changes and expansion of the ISA curriculum in the UH
   system

4. Have all relevant personnel been consulted?   ☐ No   X Yes
   If "yes," list names and concentrations/positions:
   Dr. David Pai, Assistant Professor, UHWO

Prof. Aaron Tanaka, CENT Program Director, HCC
Dr. Derek Choy, Chair, Business Administration

5. Change requested by:

Faculty Member _Dr. David Pai_____ Date NOV – 2 2012

Division/Program Chair
Dr. Derek Choy, Business Administration_____ Date NOV – 2 2012

6. Action approved by:

UHWO Curriculum Committee _____ Date NOV – 9 2012

7. UHWO Vice Chancellor _____ Date NOV 2 1 2012

UHWO Chancellor _____ Date JUN – 3 2013

8. Proposal reviewed by:

UH CCAO _____ Date _____

9. Proposal approved by:

UH VP for Academic Affairs_____ Date _____

UH President _____ Date _____

Appendix I: Degree Program Requirements, Bachelor of Applied Science, concentration in Information Assurance, Pages 4-8

Bachelor of Applied Science with a Concentration in Information Assurance
Lower-division IA courses (All CENT courses at HCC, others can be taken at any campus):
39-40 credits:

IA LOWER DIVISION REQUIRED COURSEWORK: 39-40 Credits	
Credits	Course Alpha/Number/Title
3	CENT/ICS 110 Introduction to Information Systems
4	CENT 130 Intro to OS and Sys Admin
3-4	ICS 111 Intro to Computer Science I
4	CENT 140 Networking
4	CENT 231 Data Communicattion
4	CENT 228 Linux OS
4	CENT 270 Windows Server
4	CENT 275 Security+
3	CENT 280 Database
3	ACC 201 Introduction to Financial Accounting
3*	ECON 130 Principles of Microeconomics or ECON 131 Principles of Macroeconomics
39-40	Total

* This course (3 credits) will satisfy a DS General Education Requirement at UHWO.

Upper- division ISA Courses: 18 credits

IA UPPER DIVISION CORE COURSEWORK: 18 Credits	
Credits	Course Alpha/Number/Title
3	ISA 400 Management of Information Security
3	CENT 310 Network Security
3	ITS/CENT/BUSA 410 IT Project Management
	ISA Electives (Min. 9 credits - select 3 of the 4)
3	ISA 320 Fundamentals of Secure Software Programming
3	ISA 340 Introduction to Digital Forensics
3	ISA 330 Introduction to Proactive System Security (IDS/IPS/Pen Testing)
3	ISA 450 Modern Cyber Conflicts

18	Total

18

Bachelor of Applied Science core coursework 15 credits:

BAS CORE REQUIREMENTS: 15 credits	
Credits	Course Alpha/Number/Title
3	ENG 200, 209, 210 or 215* Composition
3	PHIL 481* Ethics and Administration (ETH - focus recommended)
3	SSCI 301 Methods & Techniques in Social Science Research
3	PUBA 341 Statistics for Decision-Making in Public Administration OR BUSA 320 Statistics for Decision-Making OR SSCI 210 Statistical Analysis I (300+ level course recommended)
3	APSC 486* Senior Project or APSC 490* Senior Practicum, Capstone Requirement
15	Total

* 9 of these 15 credits are also part of UHWO General Education or graduation requirements. (The BAS requirement BUSA/PUBA 330 Computer Skills for Administrators is waived for ISA students.)

Other Electives: 23 credits

ELECTIVES: 23 credits	
Credits	Course Alpha/Number/Title
9	General Business/Public Admin Electives (Min. 9 credits)
	Any 3XX/4XX BUSA or PUBA courses not used to meet any other requirement.
	Open Electives (Min. 6 credits at 3XX or above)
14	Any course not used to meet a prior requirement above. Minium of 6 credits at the 3XX level or higher.
23	Total

It is recommended that the students work with their academic advisor to concentrate elective within areas of focus, depending on the student's career plans.

Other Residency and Upper-division requirements at UHWO:
Students must complete at least **30** credits from UHWO to meet the residency requirement, and at least **45** credits of upper division work (300 and 400 level courses), in order to graduate with the BAS from UHWO.
These credits must include all General Education, Bachelor of Applied Sciences core, IA and UHWO graduation requirements.

Summary of UHWO General Education and Graduation requirements:

GENERAL EDUCATION REQUIREMENTS: 25 credits	
Credits	Course Alpha/Number/Title
3	Foundations Written Communication (FW) ENG 100 or ESL 100
3	Foundations Symbolic Reasoning (FS) MATH 103 OR MATH 135 or higher
3	Foundations Multicultural Perspectives (FG): 6 credits from two different groups (A,B,C): Group A: (e.g. HIST 151 or ANTH 151 Group B: (e.g. HIST 152 or ANTH 152) Group C: GEOG 151, MUS 107, GEOG 102, REL 150
3	Foundations Multicultural Perspectives (FG): Group different from above
3	Diversification Arts, Humanities & Literature (DA, DH, DL): 6 credits from two different areas. Recommended: HWST 107, or other DH or DL course with HAP* focus
3	Diversifications Arts, Humanities & Literature (DA, DH, DL): Different from area above. Recommended: SP 151, SP 251 or other DA with OC* focus
3*	Diversification Social Sciences (DS): 6 credits from two different areas. Recommended: * ECON 130 or ECON 131 credits counted in IA Lower Division Required Coursework
3*	Diversification Social Sciences (DS): SSCI 301 * credits counted on p.2, in BAS Core Requirements
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 science lab (DY)
25	Total

Foundations

FW	3	ENG 100 Composition I [or ESL100]
FS	3	MATH 103: College Algebra or higher math
FG	<u>6</u>	HIST 151 & 152 or ANTH 151 & 152, or other FG options
	12	

Diversification

DB	3	any course designated Diversification Biological *
DP	3	any course designated Diversification Physical
DY	1	One science course must include a lab
DS	6	any coursework designated Diversification Social Sciences (total 6 credits required for DS: 3 credits for SSCI 301 Methods & Techniques of Social Science Research and 3 credits for ECON 130 or 131 Principles of Micro/Macroeconomics already accounted for as part of BAS core and General Education DS)
DH, DA, or DL	6	any coursework designated Diversification Humanities, Arts, or Language. The following 2 courses also meet focus requirements: HWST 107 Hawai'i: Center of the Pacific * SP 151 Personal and Public Speech* or SP 251 Principles of Effective Speaking *
	19	

Focus

Oral	3
Ethics	3
Hawaiian, Asian, <u>Pacific</u>	<u>3</u>
	9

*Focus courses are approved by instructor, so not all sections of a given course may fulfill the same focus requirements.
Focus courses may fulfill other requirements, such as DH, DA, DL

Other Graduation Requirements:

ENG 215 or equivalent	3	(also part of BAS core)
Writing Intensive	<u>9</u>	(including required ITS 410 and APSC 486 or 490 (6))
	12	

Notes: Foundations Multi-cultural global perspectives (FG) may be completed with any 6 credits from two different groups designated FGA, FGB, FGC. Diversification Humanities, Arts, or Literature may be completed with any course designated DH, DA, or DL, with two different groups represented. Students should consult with academic advisors for course selections regarding E, O and H focus.

Summary of BAS-ISA requirements:

Lower-division ISA requirements at	**39-40**
Upper-division ISA requirements at	**18**
Bach Applied Sciences core at UHWO	**15**
Other restricted and Free electives	
(assumes 15 credits at the 3XX or 4xx Level)	**23**
Other General Education & Graduation req at UHWO	**25**

Total = 120-121

If students make efficient course selections, the program will require 120-121 total credits.