



**UNIVERSITY  
of HAWAI'I®**  
**WEST O'AHU**



UNIVERSITY of HAWAI'I®  
**HONOLULU**  
COMMUNITY COLLEGE

**UNIVERSITY OF HAWAI'I  
MEMORANDUM OF AGREEMENT**

**BACHELOR OF APPLIED SCIENCE  
CONCENTRATION IN COMPUTING, ELECTRONICS, AND  
NETWORKING TECHNOLOGY**

The purpose of this degree pathway is to facilitate a smooth transition for students entering Honolulu Community College or the University of Hawai'i-West O'ahu as they work towards obtaining the Bachelor of Applied Science (BAS) degree with a concentration in Computing, Electronics, and Networking Technology (CENT). This pathway is designed to produce multiple entry and exit points to flexibly serve student career and educational objectives. In particular, this Agreement will facilitate the transfer of students in the Associate in Science (AS) in the Computing, Electronics, and Networking Technology (CENT) Program or the Advanced Professional Certificate in CENT, at Honolulu Community College (HON) to the Bachelor of Applied Science with a concentration in CENT at the University of Hawai'i-West O'ahu (UHWO).

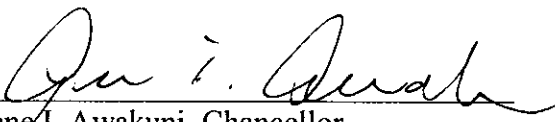
Under the terms of this Agreement, the University of Hawai'i-West O'ahu agrees to:

- Identify a Student Services Advisor(s) at UHWO who will partner with HON's advisor(s) to ensure timely and accurate advising information on pre-admission, admission, degree requirements, and other related advising information,
- Identify a UHWO faculty member who will serve as the faculty advisor to students in the CENT concentration,
- Meet with HON faculty and/or administration on an annual, or as needed basis, to discuss potential and planned curricular changes.

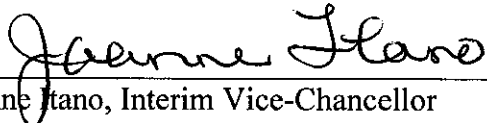
Under the terms of this Agreement, Honolulu Community College agrees to:


- Identify a program counselor at HON who will partner with UHWO advisor(s) to ensure timely and accurate advising information on pre-admission, admission, degree requirements, and other relevant advising information,
- Identify a HON faculty member who will serve as the faculty advisor to students in the CENT Concentration and consult with UHWO's admissions personnel on students on an as needed basis,
- Meet with UHWO faculty and/or administration on an annual, or as needed basis, to discuss potential and planned curricular changes,
- Begin discussions with UHWO on dual enrollment processes to benefit the matriculation and transfer processes for CENT students.

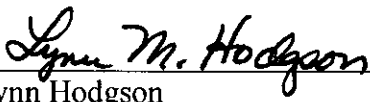
This Agreement will be reviewed as necessary, in order to support the transfer, matriculation and graduation of CENT students from both HON and UHWO.


  
Gene I. Awakuni, Chancellor

  
Ramsey Pederson, Chancellor

  
Joanne Itano, Interim Vice-Chancellor  
for Academic Affairs

  
Erika Lacro, Interim Vice-Chancellor  
for Academic Affairs

  
Lynn Hodgson  
Professor and Chair of Math and  
Natural Science

  
Aaron Tanaka  
Professor, CC  
Computing, Electronics, and Networking Technology

Date of Agreement: 5/19/08

**Bachelor of Applied Science with a Concentration in Computing, Electronics,  
and Networking Technology**

**Bachelor of Applied Science core coursework 15 credits<sup>1</sup>:**

3	ENG 200	Composition II <sup>2</sup>
3	PUBA/BUSA 481	Ethics and Administration
3	SSCI 301	Methods and Techniques in Social Science Research
3	PUBA 341	Statistics for Decision-Making in Public Administration; BUSA 320 Statistics for Decision-Making; or SSCI 310 Applied Statistics I
3	BAS 486/490	Senior Project/Administrative Practicum

**CENT lower-division coursework 45-46 credits:**

3	CENT 110	Introduction to Information Systems
4	CENT 130	Microcomputer Operating Systems
4	CENT 131	Microcomputer Hardware I
4	CENT 140	Computer Networking I
4	CENT 227	Networking with TCP/IP
4	CENT 253	System Administration w/UNIX/LINUX
4	CENT 270	Networking Operating Systems I
4	CENT 280	Database Systems I
4	CENT 285	Introduction to Internet Applications/Web Applications
2	CENT 290V	Internship CENT or CENT 293V Coop Ed
3-4	CENT course	elective
1	FAMR 100	Personal & Professional Development
4	ICS 111	Computer Science I

**CENT concentration coursework 23 or 24 credits:**

4	CENT 305	Information Systems Security
4	CENT 310	Network Security
4	CENT 315	Network Administration
4	CENT 410	Project Management
7-8	CENT Technology Electives from the following lists <sup>3</sup> :	

**Information Networking:** CENT 231 Data Communications; CENT 235 IP Communications; CENT 240 Computer Networking II; CENT 340 Advanced Routing; CENT 345 Multilayer Switching; CENT 360 Network Security II

**System Administration:** CENT 232 PC Desktop and Printer Support; CENT 300 Systems Analysis & Design; CENT 352 UNIX System Administration II; CENT 370 Integrated Network Applications; CENT 372 Network Operating Systems II; CENT 390 Special Topics in CENT; ICS 211 Computer Science II

<sup>1</sup> BAS Computer Literacy requirement is waived based on overall computer competencies with the CENT concentration

<sup>2</sup> ENG 200 must be taken at UHWO in order to meet UHWO minimum 30 credit requirement for graduation. If ENG 200 or equivalent is taken at HON, a DS course must be taken at UHWO.

<sup>3</sup> Note: if lower-division CENT and/or ICS coursework is taken in this category, student must still meet minimum 45 credit upper-division requirements for graduation

**Upper-division restricted electives 12 credits:**

**Management Information Systems:** BUSA 332 Contemporary Business Issues; BUSA 345 Management Information Systems

**Business:** BUSA 310 Concepts in Accounting; BUSA 321 Business Finance; BUSA 324 Business Law

**Management/Administration:** BUSA 435 Strategic Planning; BUSA 462 Disaster Recovery & Business Continuity; PUBA 301 Health Care Administration; PUBA 302 Health Policy, Politics and Law; PUBA 306 Principles of Public Administration; PUBA 310 Research Methods in the Public Sector; PUBA 313 Communication Skills for Administrators; BUSA/PUBA 480 Organizational Behavior

**General Education coursework requirements 28 credits:**

FW	3	ENG 100 Composition I
FS	3	MATH from the following list: 103 College Algebra; 135 Pre-calculus: Elementary Functions; 140 Pre-calculus: Trigonometry and Analytic Geometry; or higher level math
FG	6	HIST 151 World Civilizations I and HIST 152 World Civilizations II <sup>4</sup>
DB	3	any course designated Diversification Biological
DP/DY	4	PHYS 131 Electricity, Magnetism, and Optics <sup>5</sup>
DS	3	any coursework designated Diversification Social Sciences (total 6 credits required for DS: SSCI 301 Methods & Techniques of Social Science Research already accounted for as part of BAS core and General Education DS)
DH, DA, or DL <sup>6</sup>	6	HWST 107 Hawai'i: Center of the Pacific; SP 151 Personal and Public Speech

**Total credits: 123-125 credits**

<sup>4</sup> Foundations Multi-cultural global perspectives may be completed with any 6 credits from two different groups designated FGA, FGB, FGC

<sup>5</sup> Students who entered CENT prior to Fall 2008 should consult with their academic advisors on the completion of DP/DY credit.

<sup>6</sup> 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 O and H focus.

**Coursework utilized for Graduation, General Education and/or Focus Requirements**

**General Education 31 credits:**

**Foundations:**

Written Communication (FW):	ENG 100 Composition I <sup>7</sup>
Symbolic Reasoning (FS):	MATH 103 College Algebra; 135 Pre-calculus: Elementary Functions; 140 Pre-calculus: Trigonometry and Analytic Geometry; or higher level math
Global & Multi-cultural Perspectives: (FGA, FGB, FGC)	HIST 151 and 152 World Civilizations I and II

**Diversification:**

Humanities, Arts, or Literature: (DH, DA, or DL)	HWST 107 Hawai'i: Center of the Pacific; SP 151 Personal and Public Speaking
Social Sciences (DS):	SSCI 301 Methods and Techniques in Social Science Research; three credits of a DS designated course
Biological Sciences (DB):	any course designated DB by catalog description
Physical Sciences (DP) and Science Lab (DY):	PHYS 131 Electricity, Magnetism, and Optics (PHYS 131 is a 4 credit class which includes a lab designated DY).

**Focus Requirements:**

Oral Communication (O):	SP 151 Personal and Public Speaking
Ethics (E):	PUBA/BUSA 481 Ethics and Administration
Hawaiian, Asian, Pacific (H):	HWST 107 Hawai'i: Center of the Pacific
Writing-Intensive (WI):	Nine credits at the upper-division level, with no more than three credits from capstone (BAS 486/490)

---

<sup>7</sup> ENG 200 must be taken at UHWO in order to meet the UHWO minimum 30 credit requirement. If ENG 200 or equivalent is taken at HON, a DS course must be taken at UHWO.

**Graduation Requirement: 45 credits of upper-division coursework**

<b>Course</b>	<b>Title</b>	<b>Credits</b>
SSCI 301	Methods and Techniques in Social Science Research	3
Statistics	PUBA 341 Statistics for Decision-Making in Public Administration; BUSA 320 Statistics for Decision-Making SSCI 310 Applied Statistics I	3
PUBA/BUSA 481	Ethics and Administration	3
BAS 486/490	Senior Project/Administrative Practicum	3
CENT 305	Information Systems Security	4
CENT 310	Network Security	4
CENT 315	Network Administration	4
CENT 410	Project Management	4
CENT electives	Information Networking and/or System Administration	7-8 <sup>†</sup>
UHWO electives	Restricted electives at the upper-division level	12

**Total upper-division credits: 47-48**

<sup>†</sup>Note: if student takes lower-division CENT electives, student must still complete the minimum 45 credit upper-division requirement.

**Graduation Requirement: UHWO 30 credits**

<b>Course</b>	<b>Title</b>	<b>Credits</b>
ENG 200*	Composition II	3
SSCI 301	Methods and Techniques in Social Science Research	3
Statistics	PUBA 341 Statistics for Decision-Making in Public Administration; or BUSA 320 Statistics for Decision-Making; or SSCI 310 Applied Statistics I	3
PUBA/BUSA 481	Ethics and Administration	3
BAS 486/490	Senior Project/Administrative Practicum	3
CENT 410	Project Management	4
UHWO electives	Restricted electives at the upper-division level	12

**Total UHWO credits: 31**

\*Note: if student completes ENG 200 or equivalent at HON, then 3 credits of diversification social science will be taken at UHWO.