UNIVERSITY OF HAWAIʻI

SYSTEM ARTICULATION AGREEMENT
for
the Construction Academy

Carpentry (CARP) - Hawaiʻi CC
Carpentry Technology (CARP) - Honolulu CC,
Sustainable Construction Technology - Maui CC
and
Facilities Engineering Technology (FENG) - Kauaʻi CC

September 2008

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INTRODUCTION

Construction Academy

The Construction Academy (CNAC) began in 2004 with a $1.4 million grant from the United States Department of Labor to Honolulu Community College. The purpose of the grant was to develop a construction academy on the island of Oʻahu with eight (8) public high schools. The initial results of this federally-funded academy model displayed such great potential that in late 2005 many individuals associated with education and construction in Hawaiʻi felt it warranted expansion. Thus in 2006, the Hawaiʻi State Legislature appropriated a total of $5.4 million to be shared among Hawaiʻi Community College, Honolulu Community College, Kauaʻi Community College, and Maui Community College to expand the CNAC to public high schools throughout the State.

With the expansion of CNAC came an opportunity for students participating in the academy to be able to transition seamlessly from secondary to postsecondary educational institutions as well as from an educational setting to the workforce. To ensure this seamless transition, the alignment of standards, curricula, and assessments across all components of the state's public education systems is needed.

During the course of their education, students may decide to transfer from one campus to another in the University of Hawaiʻi (UH) system. The development of an articulated program of study supports the transfer of earned academic credits within the UH system.

PURPOSE

The primary purpose of this articulation agreement is to facilitate the matriculation of students and the transfer of credits across the university system. Moreover, it is intended to inform students, whose program of study requires Carpentry (CARP), Carpentry Technology, Construction Technology, or Facilities Engineering Management (FENG) courses as part of their postsecondary degree requirements, of the program opportunities that are available to them throughout the UH system. Through this agreement, students will have the opportunity to transfer credit for equivalent courses taken elsewhere in the UHCC system, reducing the potential problems of having to retake a similar course or not being credited with work that has been completed.

AGREEMENTS AND PROCEDURES

1. **Scope of Agreement**. The UH Community Colleges listed in the table below are agreeing to the terms of this Agreement.

2. Number of Credits to be Awarded. The table below outlines the courses and credits that are being articulated between the participating University of Hawai‘i Community Colleges by this Agreement.

	Course Alpha & No.	Course Title	Credits	Campuses
A	IEDB 20	Careers in Building & Construction	3	Hawai‘i CC
		Introduction to Building & Construction	3	Honolulu CC
			3	Kaua‘i CC*
			3	Maui CC
B	CARP 20 A	Basic Carpentry I	3	Hawai‘i CC
	CARP 20	Carpentry Basics	3	Honolulu CC
		Basic Carpentry Skills	3	Maui CC
	CARP 20	Basic Carpentry	2	Kaua‘i CC
C	BLPR 22	Blueprint Reading and Drafting	3	Hawai‘i CC
			3	Maui CC
		Blueprint Reading	3	Honolulu CC
			3	Kaua‘i CC

***Changes effective Spring 2009

3. General Guidelines for the Application and Award of Transfer Credits

A. Student Eligibility: All students within the University of Hawai‘i Community Colleges (UHCC) system are eligible to receive these credits. Those students who successfully completed one or more of these course(s) on a State of Hawai‘i Department of Education high school campus as part of the Construction Academy (CNAC) will receive CC credits based on the receiving college’s established procedures.

B. Transferability: Credits awarded within the guidelines established in this Agreement will transfer between and among designated University of Hawai‘i Community College campuses. However, students should be informed by both "sending" and "receiving" campuses that transferred credits may **not** be applicable to programs outside of this Agreement.

C. Campus Procedures: Each UH Community College campus which is a party to this Agreement will be responsible for establishing procedures which detail the timeline and deadlines for application, review of requests for award of transfer credits, and the appeals process for such credits.

The Student Learning Outcomes and/or Course Outlines in this document are those for the Construction Academy courses and have been approved by the faculty and administrators of all colleges represented in this signed Agreement. This Articulation Agreement will remain in effect through August 2013. It will be subject to review in August 2012, and may be continued, revised, or discontinued with the consent of all faculty members and administrators of all campuses represented in this agreement. The Articulation Agreement will remain in effect while the review is in progress.

IEDB 20
Careers in Building & Construction - Hawai‘i CC
Introduction to Building & Construction –
Honolulu CC, Kaua‘i CC, and Maui CC

Course Descriptions

Hawai‘i CC - IEDB 20: Careers in Building & Construction (3) (6 lec/lab hrs. per week)
This course introduces students to construction and construction careers using the Contextual Model. Students will be asked to think and solve problems related to construction projects, from the origination of the idea through the actual completion of the construction process. Students will be required to sequence the project; identify by career the people involved with the project; and identify the permits, licenses, and organizations with jurisdiction over various aspects of the project including the relevant city, county, state and national codes and regulations that apply to the project. Students will be introduced to safety, common materials, hand and limited power tool application, current construction techniques, and blueprint reading.

Honolulu CC - IEDB 20: Introduction to Building & Construction (3) (56 total student contact hours)
This course introduces students to construction and construction careers using the Contextual Model. Students will be asked to think and solve problems related to construction projects from the origination of the idea through the actual completion of the construction process. Students will be required to sequence the project; identify by career the people involved with the project; and identify the permits, licenses, and organizations with jurisdiction over various aspects of the project including the relevant city, county, state and national codes and regulations that apply to the project. Students will be introduced to safety, common materials, hand and power tools, current construction techniques and blueprint reading.

Kaua‘i CC - IEDB 20: Introduction to Building & Construction (3) (6 lec/lab hrs. per week)
This course introduces students to construction and construction careers using the Contextual Model. Students will be asked to think and solve problems related to construction projects from the origination of the idea through the actual completion of the construction process. Students will be required to sequence the project; identify by career the people involved with the project; and identify the permits, licenses, and organizations with jurisdiction over various aspects of the project including the relevant city, county, state and national codes and regulations that apply to the project. Students will be introduced to safety, common materials, hand and power tools, current construction techniques and blueprint reading.

Maui CC - IEDB 20: Introduction to Building & Construction (3) (6 lect./lab hrs per week)
Introduces students to construction and construction careers using the Contextual Model. Focuses on problem solving related to construction projects from the origination of the idea through the actual completion of the construction process. Requires sequencing the project; identifying, by career, the people involved with the project; and identifying the permits, licenses, and jurisdictional organizations. Introduces safety, common materials, hand and limited power tool applications, current construction techniques, and blueprint reading.

Program Contents:

✓ Safety	✓ Communication Skills	✓ Processes
✓ Math	✓ Materials	✓ Code and Regulations
✓ Employability Skills	✓ Tools and Equipment	✓ Career Opportunities

These Student Learning Outcomes (SLOs) were developed for the Construction Academy Program. They encompass the participating University of Hawai'i Community Colleges' SLOs as well as the Department of Education's CTE standards.

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
1. Create a workable Career Development Plan.	a) Conduct a research project to identify the levels of education, training, employment opportunities, workplace environments, career growth potential, and impact of current and future technologies. b) Demonstrate the skills needed to prepare for, seek, obtain, maintain, advance in, and change jobs.		Assessment of personal plan
2. Use appropriate materials, tools, equipment and procedures to carry out tasks performed on construction projects.	a) Identify basic materials and products used in a specific trade, prepare a material list, and estimate costs. b) Demonstrate knowledge (purpose and uses) of specific tools and use tools and equipment according to industry standards. c) Define and use basic terminology and concepts as used in the industry and categorize terms to specific trades. d) Develop a working sketch.	NCCER – Core Basic Safety (00101) Skills USA – Technical Standards Book	General and Shop Safety Exams Safety Exams & Performance Assessments for: - Hand Tools - Portable Power Tools, & - Stationary Power Tools Ongoing observation & participation
3. Use math skills to solve problems related to construction plans	a) Add, subtract, multiply, and divide whole numbers, with and without the use of a calculator. b) Use a standard ruler and tape measure. c) Add, subtract, multiply, and divide fractions. d) Add, subtract, multiply, and divide decimals, with and without a calculator. e) Convert decimals to percents and percents to decimals. f) Convert fractions to decimals and decimals to fractions. g) Explain what the metric system is and how it is important in the construction industry.	NCCER –Core Intro to Const. Math (00102)	Score of 80% or better on Math assessments Observation & participation
4. Develop and demonstrate employability skills	a) Employ interpersonal skills including good attendance and promptness, willingness to learn, proper attire and hygiene.	Skills USA – Technical Standards Book	Personal attributes rubric

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
	b) Work as an effective team member and support the team in various roles (i.e. leader, member, mentor).		Observation & participation
5. Demonstrate and develop effective communication skills	a) Interpret and execute information and instructions that are presented in both written and verbal form. b) Communicate effectively in on-the-job situations using written and verbal skills.	Skills USA – Technical Standards Book	Ongoing observation & evaluation
6. Demonstrate safety practices required for the trade	a) Demonstrate the importance of personal health and fitness. b) Prepare and present a safety demonstration relating to a construction trade issue. (i.e. personal protection, MSDS, OSHA rules and regulations) c) Demonstrate safe work habits and practices to include material handling and proper tool operating procedures. d) Demonstrate the importance of maintaining a drug-free lifestyle and the effects of alcohol in the workplace	NCCER – Core Basic Safety (00101) Skills USA – Technical Standards Book	Written Assessment General and Shop Safety Exams Ongoing observation & participation Written papers and/or presentations

CARP 20A Basic Carpentry I - Hawai‘i CC
CARP 20 Carpentry Basics - Honolulu CC
CARP 20 Basic Carpentry - Kaua‘i CC
CARP 20: Basic Carpentry Skills - Maui CC

Course Descriptions

Hawai‘i CC - CARP 20A: Basic Carpentry I (3) (6 lec/lab hrs. per week)
Students will learn and practice shop safety and the safe use, care and maintenance of hand tools. Identification of basic construction materials and fasteners, adherence to good work ethics, quality workmanship and customer satisfaction is also emphasized.
PreReq: ENG 20R or ESL 9 or "B" or better in ENG 51 or placement in ENG 21; and MATH 1ABCD or placement in MATH 22 or placement in MATH 50.
CoReq: CARP 21A.

Honolulu CC - CARP 20 Carpentry Basics (3) (6 lect/lab hrs. per week)
This course provides an overview of the tools, materials, and safety practices currently used in the industry. The safe use, care and maintenance of hand tools and power tools are emphasized.
PreReq: ENG 20B & C & D & E or ESL 11 & 13 & 14 & 17 or placement in ENG 21/51; and MATH 20 B & C & D or placement in MATH 50/53.
CoReqs: CARP 26 and CARP 30.

Kaua‘i CC - CARP 20 – Basic Carpentry (2) (1 lecture, 2 lab hrs. per week)
This is an introductory course into the theory and manipulative skills involved in the use of the basic hand power tools used in carpentry. The course provides practical experience in repairs and alternations to a typical home. *(Kaua‘i CC faculty plan to increase the number of credits for this course from 2 to 3, effective Fall 2009.)*

Maui CC - CARP 20: Basic Carpentry Skills (3) (1 hr lect/3hr. lab per week)
Introduces proper use and maintenance of carpentry hand and power tools. Practices selecting and using construction materials and fastening systems.
PreReq: Placement at ENG 55, and MATH 22 or higher (or concurrent), or consent.
CoReq: CARP 21A.

Program Contents:

✓ Safety	✓ Communication Skills	✓ Processes
✓ Math	✓ Materials	✓ Codes and Regulations
✓ Employability Skills	✓ Tools and Equipment	✓ Career Opportunities

These Student Learning Outcomes (SLOs) were developed for the Construction Academy Program. They encompass the participating University of Hawai'i Community Colleges' SLOs as well as the Department of Education's CTE standards.

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
1. Demonstrate appropriate and safe behaviors and practices in school, community, and workplace; including proper use, safety, and maintenance of carpentry tools and equipment.	a) Explain the importance of safety in the construction industry. b) Demonstrate the ability to follow shop safety rules. c) Explain the appropriate safety precautions around common job-site hazards. d) Demonstrate the use and care of appropriate personal protective equipment. e) Describe safe behavior on and around ladders. f) Follow safe procedures for lifting heavy objects. g) Define safe work procedures around electrical hazards. h) Identify the basic hand, portable power, and stationary tools used in construction. i) Use the tools in a safe and appropriate manner. j) Describe the basic procedures to maintain tools. k) State the general safety rules for the operation and use of all hand tools regardless of type. l) State the general safety rules for the operation and use of all power tools regardless of type.	NCCER – Core Basic Safety (00101) Skills USA – Technical Standards Book	Shop Safety Exam Exams & Performance Assessments for: - Portable Power Tool Safety - Stationary Power Tool Safety General Safety Exam Ongoing observation & participation
2. Use math skills to solve problems related to construction plans.	a) Add, subtract, multiply, and divide whole numbers, with and without the use of a calculator. b) Use a standard ruler and tape measure. c) Add, subtract, multiply, and divide fractions. d) Add, subtract, multiply, and divide decimals, with and without a calculator. e) Convert decimals to percents and percents to decimals. f) Convert fractions to decimals and decimals to fractions. g) Recognize some of the basic shapes used in the construction industry and apply basic geometry to measure them.	NCCER –Core Intro to Const. Math (00102)	Written tests, observation & participation

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
3. Develop and demonstrate employability skills.	a) Demonstrate critical thinking skills and the ability to solve problems using those skills. b) Demonstrate effective relationship skills with teammates and supervisors, exhibit the ability to work on a team, and demonstrate appropriate leadership skills. c) Demonstrate appropriate personal attributes sought by employers.	Skills USA – Technical Standards Book	Personal attributes rubric Observation & participation
4. Demonstrate and develop effective communication skills.	a) Demonstrate the ability to understand information and instructions that are presented in both written and verbal form. b) Demonstrate the ability to communicate effectively in on-the-job situations using written and verbal skills.	Skills USA – Technical Standards Book	Ongoing observation & evaluation
5. Recognize and demonstrate technical knowledge of building materials (i.e., wood building materials, fasteners, and a adhesives).	a) Explain the terms commonly used in discussing wood and lumber. b) Identify various types of imperfections that are found in lumber. c) Explain how lumber is graded. d) Interpret grade markings on lumber and plywood. e) Identify various types of building boards and identify their uses. f) Identify the uses of and safety precautions associated with pressure treated and fire retardant lumber. g) Calculate quantities of lumber and wood products using industry standard methods. h) List the basic nail and staple types and their uses. i) List the basic types of screws and their uses. j) Identify the different types of anchors and their uses.	NCCER – Wood Building Materials (27102)	Exam
6. Demonstrate the ability to read blueprints.	a) Recognize and identify basic blueprint terms, components, and symbols. b) Relate information on blueprints to actual locations on prints. c) Interpret and use drawing dimensions.	NCCER – Carpentry Modules	Blueprint reading exam
7. Demonstrate industry standard practices for various carpentry processes (i.e.	a) Floor Systems - Demonstrate appropriate use of different types of framing systems. b) Wall and Ceiling Systems - Demonstrate appropriate use of components of a wall and ceiling layout.	NCCER – Carpentry Modules 27104 - 27107 Skills USA – Technical Standards Book	Written Exam Project Rubric Performance Evaluation Observation & assessment

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
floor systems, wall and ceiling framing, roof framing, and windows/doors) in constructing a real- world project.	c) Roof Framing - Demonstrate appropriate use of terms associated with roof framing. d) Windows and Doors - Identify the various types of windows and doors.	p. 149 (Carpentry)	

BLPR 30F Blueprint Reading for Carpenters - Hawai'i CC
BLPR 22 Blueprint Reading - Honolulu CC and Kaua'i CC
Blueprint Reading and Drafting - Maui CC

Course Descriptions

Hawai'i CC - BLPR 30F Blueprint Reading for Carpenters (3) (2 lecture hrs., 3 lab hrs. per week)
A basic course in construction drawing and sketching using orthographic, isometric and oblique projections systems. Reading of blueprints and specifications including the interpretation of symbols, abbreviations, notes, types of lines, scales, and various dimensioning methods. Extracting of information from the various plans views, elevations, sectionals, and detail drawings.

Honolulu CC - BLPR 22 Blueprint Reading (3) (3 lecture hrs. per week)
A basic course designed primarily for students in the construction trades. Topics include principles of graphic representation, basic building construction, interpretation of working drawings, and building specifications.

Kaua'i CC - BLPR 22: Blueprint Reading - (3) (3 lecture hrs per week)
This course is an introduction to reading and understanding plans and specifications for residential and other small buildings. Students study visualization and the various symbols, legends, abbreviations, and dimensioning techniques used in blueprints. Topics include civil, structural, architectural, mechanical, electrical, and landscape drawings. Other topics include the specifications, construction materials, and construction methods.
PreReq: Qualified for ENG 21 and MATH 22.

Maui CC - BLPR 22 Blueprint Reading and Drafting (3) (3 lecture hrs. per week)
Introduces the principles of pictorial and architectural drawing, interpretations of working drawings and specifications, and drafting practices.

Program Contents:

- ✓ Math
- ✓ Employability Skills
- ✓ Sketching
- ✓ Mechanical Drawing
- ✓ Career Opportunities
- ✓ Communication Skills

These Student Learning Outcomes (SLOs) were developed for the Construction Academy Program. They encompass the participating University of Hawai'i Community Colleges' SLOs as well as the Department of Education's CTE standards.

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
1. Demonstrate knowledge of personal and professional career opportunities that utilize blueprint reading skills and outline a personal career path.	a) Conduct a research project to identify the levels of education, training, employment opportunities, workplace environments, career growth potential, and impact of current and future technologies. b) Demonstrate the skills needed to prepare for, seek, obtain, maintain, advance in, and change jobs.		Written and/or oral presentation on career research evaluated by a rubric
2. Develop and demonstrate employability skills.	a) Explain the construction industry, the role of the companies that make up the industry, and the role of individual professionals in the industry. b) Demonstrate critical thinking skills and the ability to solve problems using those skills. c) Demonstrate computer skills and explain common uses for computers in the construction industry. d) Demonstrate effective relationship skills with teammates and supervisors, exhibit the ability to work on a team, and demonstrate appropriate leadership skills. e) Identify workplace issues such as sexual harassment, stress, and substance abuse. f) Explain the importance of safety in the construction industry. g) Demonstrate appropriate personal attributes sought by employers.		Continual observation with quarterly assessment using a personal attributes rubric
3. Demonstrate and develop effective communication skills.	a) Interpret and execute information and instructions that are presented in both written and verbal form. b) Communicate effectively in on-the-job situations using written and verbal skills.		Continual observation with quarterly assessment using a rubric
4. Identify and describe basic types of blueprints, graphical representations, and drafting conventions.	a) Identify and define terms: "blueprint", prints, working drawings, assembly drawings, presentation drawings, sketches, "as built" drawings, record drawings. b) Identify and describe drawings and blueprints associated with each major building and construction trade (architectural, electrical, structural, plumbing, sheetmetal, etc.)	ASME Y14 Mechanical Drawing and Drafting Standards	Written test Quarterly drawing assignments using a drawing rubric (minimum of 1 drawing /quarter)

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
	c) Recognize and use architectural, electrical, plumbing, mechanical and structural drawing symbols. d) Read and understand all components included in simple construction drawings (plans, elevations, schedules, etc.). e) Identify and describe details for a residential building including a plot plan, foundation plan, floor plan, building and wall sections, electrical plan. f) Describe finish and material schedules (room, door, etc.). g) Construct a simple model from a drawing. h) Explain building, safety, and ADA codes and understand how to access information regarding building safety codes and ADA codes. i) Identify and describe properties of basic construction materials and drawing conventions. ✓ Lumber ✓ Plywood and plywood panels ✓ Trim lumber ✓ Gypsum Board ✓ Concrete masonry units ✓ Concrete ✓ Reinforcing steel ✓ Structural steel		Project using a scaled model rubric (minimum of 1/year)
5. Communicate ideas graphically to others through the use of sketches and rough drawings	a) By hand, draw circles and various angles (horizontal, vertical, and 30, 45, and 60 degree angles). b) Scale an object so that the height and width are proportioned correctly. c) Sketch an architectural object (e.g. a stairway) to meet basic standards. d) Create a proportional isometric architectural sketch. e) Create building elevations from floor plans. f) Create an isometric drawing from object plans. g) Demonstrate dimensioning techniques for architectural drawings. h) Describe the difference between dimensioning of architectural and engineering drawings. i) Demonstrate dimensioning of spaces along exterior walls and within	ASME Y14 Mechanical Drawing and Drafting Standards	Sketches and rough drawings evaluated by a drawing rubric. (minimum of 1/quarter)

Student Learning Outcomes	Knowledge, Skills and Abilities	National Occupational Skill Standards	Possible Assessments
	interior spaces.		
6. Perform basic mechanical drawing skills.	a) Demonstrate proper linework, lettering, dimensioning, and symbol use in drawings of industry standard quality. b) Demonstrate the ability to center drawings, scale views, and draw neatly and accurately with basic manual drafting tools. c) Create correct single, orthographic or multi-view, isometric, sectional, and perspective views of simple objects from different types or differently oriented views of objects. d) Create correct architectural floor plan drawings appropriate to the level of the course. e) Identify the components of a drawing set.	ASME Y14 Mechanical Drawing and Drafting Standards	Project using a drawing rubric (minimum of 1 per year)
7. Use math skills to solve problems in construction related plans.	a) Use a scale. b) Demonstrate mathematical functions: ✓ Add and subtract architectural units. ✓ Convert feet & inches. measurements to decimals. ✓ Calculate area of rectangles, triangles, and circles. ✓ Calculate volume. c) Create spreadsheets either manually or using a computer program. d) Apply appropriate math skills for estimating. e) Calculate square footage to prepare an estimate for a construction project. f) Prepare a price unit estimate. g) Prepare a materials list quantity take-off	MEANS Construction Cost Data	Written test including quarterly fact sheets and quizzes

AEC 80 Basic Drafting - Hawai‘i CC, Honolulu CC, Maui CC

See AEC 80 information in the Architectural, Engineering, and CAD Technologies (AEC) Program of Study Articulation Agreement.

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Hawai'i Community College

Rockne Freitas, Chancellor — Date: SEP 25 2008

Douglas Dykstra, Vice Chancellor for Academic Affairs — Date: 9-24-08

Joni Onishi, Interim Assistant Dean, Career and Technical Education — Date: 9/17/2008

Beth Sanders, Interim Director of West Hawai'i Campus — Date: 9/17/2008

Gordon Nekoba, Assistant Professor and Construction Academy Coordinator — Date: 9/17/08

Rex Ribao, Construction Academy Instructor — Date: 9/17/08

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Honolulu Community College

Michael Rota, Interim Chancellor — Date 10/2/08

Erika Lacro, Vice Chancellor for Academic Affairs — Date 10/7/08

Mark Sillman, Dean, Transportation and Trades — Date 10/2/08

Michael Barros, Director, Technology Academy — Date 9/9/08

Dean Crowell, Carpentry Instructor — Date 10/7/08

Guy Fo, Construction Academy Instructor — Date 9-19-2008

Marcus Heresa, Construction Academy Instructor — Date 9-11-2008

Chris Kuahine, Construction Academy Instructor — Date 9/17/08

Norman Takeya, Construction Academy Instructor — Date 9-10-2008

Rona Wong, Counselor — Date 10/7/08

Erica Balbag, Construction Academy Counselor — Date 9-25-08

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Kaua'i Community College

Helen A Cox	9/8/08
Helen Cox, Chancellor	Date
	9/5/08
Charles Ramsey, Dean of Instruction	Date
	9/5/08
Robert Conti, Construction Academy Coordinator	Date
	9/9/08
John Constantino, Construction Academy Counselor	Date
Bonnie Honma	9/08/08
Bonnie Honma, Counselor	Date

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Maui Community College

Clyde Sakamoto, Chancellor	9/15/08 Date
Suzette Robinson, Vice Chancellor of Academic Affairs	9/18/08 Date
Patricia Adams, Interim Assistant Dean of Instruction and Construction Academy Coordinator	9/18/08 Date
Carlton Atay, Instructor, Sustainable Construction Technology	9/24/08 Date
Andrew Carson, Construction Academy Instructor	9-24-08 Date
Larry Janik, Construction Academy Instructor	9.24.08 Date
Steve Johnson, Construction Academy Instructor	9/12/08 Date
David Techau, Construction Academy Instructor	9/24/08 Date
Linda Fujitani, Construction Academy Counselor	9/18/08 Date