IRAO OFFICE USE ONLY		
Received	12/15/16	
In Banner		
MTVCOMP/Codeset		
Master Curriculum		
CIP Code		
Program Code		
Program Description		

Special Program Designations See Special Program Designations Code Definitions on IRAO Program Code Request webpage

Required Terms of Enrollment:

University of Hawai'i Code Request Form for Academic Programs for

NEW OR MODIFY PROGRAM CODE

Re	SA	Fo	rm
116	30		

Extended

Summer

Program Description		INCCR	AIVI COL		
New Prog	gram Code		ogram Code	Date: <u>8/29/16</u>	
		ecialist	Email debi	Maui College nie@hawaii.edu i-984-3378	•
	UH Maui College Indergraduate Code	V	Campus Effective Term		~
Justification to warra	(Max. Characters) (2) IN (4) CTEC (6) CO (4) CTEC (4) SUSC (4)	Instructional Construction Te Certificate of Co Construction Te Sustainable Con ts in Banner, please	ompetence chnology nstruction Tech list the code: ar to an existing ma	Check if requesting new code See Banner form STVCOLL See Banner form STVDEPT See Banner form STVDEGC See Banner form STVMAJR See Banner form STVMAJR See Banner form STVMAJR SUSC najor/concentration code: areer and technical avenues in	
Is this major/concentration code being used the same way at the other UH campuses? Yes No Should this program be available for applicants to select as their planned course of study Yes No on the online application? If yes, student may select the code as their only program of study. RULES PERTAINING TO FINANCIAL AID AND 150% DIRECT SUBSIDIZED LOAN LIMIT LEGISLATION Is 50% or greater of the classes in this program offered at a location other than the Home Yes No Campus?					
Does this certificate program)? See http://www.ifap.ed.gov (or/certificate financia qualify as a Gainful En GamfulEmploymentInfo index s are acceptable The length of ablication	mployment Program			0

Spring

Fall

University of Hawai'i Code Request Form for Academic Programs

NEW OR MODIFY PROGRAM CODE

ADDITIONAL COMMENTS				
*				
ATTACHMENTS				
BOR Approved: Associate, Bachelor and Graduate Degrees, and sole credential certificates BOR Meeting Minutes & Supporting Documents Chancellor Approved: Certificates related to authorized BOR program & Associate in Technical Studies (ATS) Degree Memo from Chancellor to notify VPAA about new program Curriculum				
	rellor, the related BOR authorized academic p $S-CTEC$	rogram is:		
VERIFICATIONS				
By signing below, I verify that I have review	ed and confirm the above information that i	s pertinent to my position.		
Registrar:	0 0 0			
Flora Mora	Frank Oh_	10/13/16		
Print Name	Signature	Date		
Financial Aid Officer:				
Davileigh Nae'ole	Davileigle Mae'de	10/13/16		
Print Name	Signature	Date		
For Community Colleges, verification of consultation with OVPCC Academic Affairs:				
Suzelle Robinson	Dry Klei	12/14/16		
Print Name	Signature)	Date		

Proposal Type:

Curriculum Proposal Cover Sheet – Program/Degree/Certificate Routing procedure Official Signatures on Signature Page

Program Name: (Sustainable) Construction Tech

or Course Alpha &N	Addition		
Author: Tim Bo	Modification Deletion		
		L	
Date of Activity:	:		
9/28/15	Author Signature		
9/28/15	Curriculum Representative Signature		
19/28/15	Department Chair Signature		
10-5-15	Curriculum Chair Signature		
	Proposals Posted in Website for Gener	al Review	
1-8-16	Academic Senate Chair Signature		
Chief Academic Officer Signature			
Chancellor Signature			
NEW DEGREES ONLY! Chief Academic Officers Approval			
NEW DEGREES ONLY! Board of Regents Approval		egents Approval	
	Signature Sheet Returned to Curriculum C hair		
Distribution, Posting and Follow-Up:			
	Notify Proposers of Approval		
	Banner & IRO Input		
	Catalog Input Complete		
	Articulation Forms Forwarded to Articulation Coordinator		
	_ Five-Year Review Database Updated		
Originals Filed in Chief Academic Officer's Office			
Registrar & Counseling Notified			

Curriculum prop	osal number	
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For Banner use

Rev

Req

University of Hawaii Maui College Curriculum Action Request (CAR) Form Program/Degree/Certificate

١.	Author(s): Tim Botkin Clifford Rutherford	Alpha Program name	
2.	Department: CTE Program: S	Sustainable Construction Tech (SUSC)	Program Code Concentration
3.	Date submitted to Curriculum Committee: 9 28 15		Major Code
4.	Program proposal New program (attach program proposal and program n	nap) Change of name to existing pr	ogram
	Existing program Fittle. Proposed program Tittle:		
5.	Credential (degree or certificate) proposal New credential added to existing program	Modification to existing credential	I
	Type of credential Degree: AA AS AAS Other, specify:	Certificate: ☐ CA ☐ CC ☒ CO	□ASC
	Existing credential: Title: Proposed credential: Title: Certificate of Competer	nce (CO) Sustainable Technology	Credits: 11-12
	If modification, describe change: Change in credential name Change in course requirement(s); specify: Change in prerequisite(s) for credential; specify: Other; specify:		
	Program map must be attached. (For modification	ns, write changes on copy of current catalo	og map)
6.	Reason for this curriculum action: This certificate prepares students for entry level energy production and sustainable construction design and installation positions and professional development within the fields. Creates a common thread between STEM and the construction trades. To provide a new certificate option for students to explore various career and technical avenues in field of sustainability. This certificate will also create a transition point for students to carry required or elective credits in the transfer of majors from one program to another (SSM and SUSC).		
7.	Proposed term of first offering: <u>Fall</u> semester of <u>201</u>	<u>6</u> year.	
8.	Special fees required:	☐ no ☐ yes, explain:	
9.	Special resources (personnel, supplies, etc.) required	l: No yes, explain:	
10	Special scheduling considerations:	☐ yes, explain:	
11	Which program SLOs does this certificate support Program SLO 1: All Explain: Please see # Program SLO 2: Explain: Program SLO 3: Explain:	t? (<i>list all that apply and explain, if ned</i> 13 Additional Information	cessary.)

- 12. Current UHMC Catalog needs revision on page(s): 2015-2016 catalog revisions: p. 28, add CO in Sustainable Technology to SUSC program certificate list; p. 53, program map, add CO in Sustainable Technology with required courses.
- 13. Additional Information: Certificate of Competence (CO) in Sustainable Technology

Certificate requirements:

- 1) Introduction to Sustainability (3 credits): Either SSM 101(3) OR ENRG 101(3)
- 2) Drafting Construction Skills (2-3 credits): One of the following courses; AEC 80(3), OR BLPR 22(3), OR ICS 161(3); OR MAIN 50(2), 65(2) or 70(2).
- 3) Renewable Energy (3 credits): ENRG 103(3)
- 4) Green Building (3 credits): SSM 201(3)

Total 4 courses. 11-12 credits.

This certificate to be listed in both the SSM and (Sustainable) Construction Technology program maps.

This CO supports all of the SUSC program PLOs

- Use and maintain appropriate materials, tools, equipment, and procedures to carry out tasks performed on construction projects according to safety and industry standards.
- II. Use math, computer, and oral and written communication skills to solve construction project problems.
- III. Create and maintain accurate documentation of construction and maintenance projects.
- IV. Describe industry standard Green Building practices in construction and maintenance projects.
- V. Read and interpret blueprints, and or schematics, and specifications to plan projects.
- VI. Demonstrate the craftsmanship standards of dependability, punctuality, and quality.
- VII. Examine and use proper mechanical, electrical, and carpentry codes and standards applicable to construction and repair.

Sustainable Construction Technology

The Sustainable Construction Technology program prepares students in general building construction and maintenance of large or small structures. It allows students to explore different trades prior to selecting a specialization

Contact the program coordinator for more information.

Requirements for Certificates of Professional Development (CPD):

Welding for Trades: 2 credits Welding 19B(1), 19D(1

Occupational Safety & Health 20(1). Safety: 2 credits

Health 31(1)

O: Sustainable Technology

ruficate requirements: Introduction to Sustainability (3 credits) Either SSM 101(3) OR ENRG 101

Drafting/Construction Skills (2-3 credits): One of the following courses. EC 80(3), OR BLPR 22(3), OR ICS 161(3); OR MAIN 50(2), 65(2) or 70(2).

Renewable Energy (3 credits). ENRG 103(3)

Green Building (3 credits): SSM 201(3)

al 4 courses. 11-12 credits.

Requirements for Certificate of Competence (CO): 16 credits

Carpentry 20(3)

Electricity 20(3)

Energy 101(3)

Carpentry 41(3)

Requirements for Certificates of Competence (CO):

Basic Carpentry Skills: 6 credits Basic Drafting Skills: 6 credits

Electrical Maintenance: 5 credits

Energy Production: 6 credits Maintenance Painting: 4 credits Maintenance Plumbing: 4 credits

Rough & Finish Carpentry: 8 credits Carpentry 41(3), 43(3), 193v(2) Small Equipment Repair: 6 credits

Maintenance 20(2), 40(2) Maintenance 20(2), 50(2)

Electricity 20(3), 23(2)

Energy 101(3), 103(3)

Electricity 23(2), Maintenance

Blueprint 22(3), Carpentry 20(3)

AEC 80(3), Blueprint 22(3)

20(2), 60(2) > *Crosslisted wother prigran

Maintenance 20(2)

Quantitative Methods 107C(3)

Health 31(1); Occupational Safety & Health 20(1)

Requirements for Certificate of Achievement (CA): 33 credits

All Sustainable Construction Tech CO courses(16) plus:

Architectural Engineering & CAD Tech 80(3)

Blueprint 22(3)

Energy 103(3)

Maintenance 40(2)

English 100 or 106(3)**

Requirements for Associate in Applied Science (AAS) Degree: 64-67 credits

All CA courses (33) plus:

Carpentry 43(3)

Electricity 23(2)

Maintenance 30(2), 50(2), 60(2), 70(2)

Welding 19B(1), 19D(1)

Cooperative Education 193v(2) - in the appropriate alpha

BUS/COM 130, COM 145, or SP 151

Humanities elective(3) - 100 or above Natural Science elective(3) except PHYS 50 Social Science elective(3) - 100 or above

Technical electives(2-5): Maintenance 65(2), Carpentry 42(3),

or other program courses: AEC, BLPR, CARP, ELEC, ENRG, MAIN

Full-time students would take courses in this sequence:

First Semester (Fall)	Credits	Second Semester (Spring)	Credits
*CARP 20 Basic Carpentry Skills	3	*AEC 80 Basic Drafting	3
*ELEC 20 Intro to Electricity	3	*BLPR 22 Blueprint Reading & Drafting	3
*ENRG 101 Intro to Sustainable Technology	3	*CARP 41 Rough Carpentry	3
*HLTH 31 First Aid and Safety	1	*ENRG 103 Energy Production Systems	3
*MAIN 20 Intro to Building Maintenance	2	*MAIN 40 Painting & Decorating	2
Mathematics 100 or higher, or BUSN 189(3)***	3	*ENG 100 or 106 ·	_3
*OSH 20 Intro to Occupational Safety & Health I	1		17
	16		
Third Semester (Fall)		Fourth Semester (Spring)	
CARP 43 Interior Finish	3	ELEC 23 Electrical Wiring I	2
Cooperative Education 193v(2) - in the appropriate alpha	2	MAIN 70 Preventive Maintenance	2
MAIN 30 Masonry	2	Technical electives - see electives in AAS requirements above	2-5
MAIN 50 Plumbing	2	Humanities elective	3
MAIN 60 Small Equipment Repair	2	Natural Science elective	3
WELD 19B and 19D Welding for Trades	1,1	Social Science	_3
BUS/COM 130, COM 145, or SP 151	_3		15-18
	16		

^{*}Note: Courses required for the Certificate of Achievement.



^{**}Note: ENG 22/55 may be substituted for the Certificate of Acheivment for those not going on for the AAS degree.

^{***}Note: MATH 22/82 may be substituted for the Certificate of Acheivment or Competence for those not going on for the AAS degree.

Career & Technical Certificates

Chancellor of Academic Affairs each academic year, listing the status of each ATS degree.

The Career & Technical Education program offers three types of certificates based upon the amount of credit required for completion. These three

Certificate of Achievement

The Certificate of Achievement (CA) is a credential awarded to students who successfully complete designated CTE credit course sequences that provide entry-level skills or job upgrades.

These course sequences shall be at least 24 credits, but may not exceed 51 credits (unless external employment requirements exceed this number).

CA Requirements

- Satisfactory Completion of a Career & Technical Education Major: Program Maps cite specific program requirements.
- General Education: 6 credits
 3 credits in English 19 or higher, and 3 credits in Quantitative Reasoning.
- 3. Grade Point Average: 2.0 (C) or better.
- 4. Residency Requirement:
 At least 12 credits toward the CA must be taken at UH Maui College.
- Application for Graduation:
 To be awarded a CA, students must complete an Application for Graduation form obtained from Student Services.

 See Academic Calendar for deadline.

At a Glance _____

Certificates of Achievement (CA)

Accounting Administration of Justice Agriculture & Natural Resources Floriculture Management Horticultural & Landscape Maint Nursery Management Sustainable Tropical Crop Mgt Auto Body Repair & Painting **Automotive Technology Business Careers Business Technology Culinary Arts** Early Childhood Education **Electronic & Computer Engineering** Technology Fashion Technology Hospitality & Tourism **Human Services** General Human Services Substance Abuse Counseling Nursing Career Ladder Practical Nurse

Certificate of Competence

Sustainable Construction Technology

A Certificate of Competence (CO) is a credential awarded for successfully completing designated short-term credit or non-credit courses that provide job upgrading or entry-level skills. Credit course sequences shall be 4 to 23 credits.

The issuance of a CO requires that students' work has been evaluated and determined to be satisfactory.

Students must earn a GPA of 2.0 or better for all credit courses required in the CO.



At a Glance

Certificates of Competence (CO)

Administration of Justice

Corrections I, II

Law Enforcement I, II

Private Security I, II

Agriculture and Natural Resources

Agricultural Science

GIS in Ecosystem Management

Landscape Maintenance

Nursery Production

Pest Management

Sustainable Tropical Crop Production

Turfgrass Maintenance

Autobody Repair & Painting Auto Body Refinishing

Corrosion

Automotive Technology

Brakes

Business Careers

e-Marketing

Entrepreneurship II

Leadership Training

Supervision II

Business Technology

Basic Office Skills - Pre-Business Tech

Business Technology

Medical Assistant I

Virtual Office Assistant

Culinary Arts

Baker's Helper

Pastry Cook

Dental Assisting

Early Childhood Education

Early Childhood Education

Early Childhood Option

Preschool Child Development Associate

Electronic & Computer Engineering Tech

Cybersecurity

Fashion Technology

Dressmaker

Fashion-Fabric Salesperson

Seamstress

Hospitality & Tourism

Human Services

Aging

Case Management

Dynamics of Family Violence

Health Navigator/Cmty Health Worker

Substance Abuse Counseling I, II, III

Youth Development Practitioner

Marine Option Program

Marine Naturalist I, II

Nursing Career Ladder

Nurse Aide Training

Pharmacy Technician

Therapeutic Activity Aide I, II

Sustainable Construction Technology

Basic Carpentry Skills

Basic Drafting Skills

Electrical Maintenance

Energy Production

Maintenance Painting

Maintenance Plumbing

Rough and Finish Carpentry
Small Equipment Repair

Sustainable Technology

Sustainable Science Management Sustainable Technology

University of Hawaii Maui College Curriculum Action Request (CAR) Signature Page

IM Withel	9/28/15-
Proposed by: Author of Program Coordinator	Date
Checked by: Academic Subject Area Representative to Curriculum Co	P/LB/15— ommitte bate
Thomas Hussen	9/28/15
Requested by Department: Department Chair	Date
Recommended by: Curriculum Chair	10-5-15 Date
Approved by Academic Senate: Academic Senate Chair	1-8-16 Date
	//-23 15
Endorsed by: Chief Academic Officer	Date
Approved by: Chancellor	1 - 8 - 16 Date