UNIVERSITY of HAWAI'I®
MAUI COLLEGE

November 23, 2021

MEMORANDUM

TO: David Lassner
Vice President for Academic Strategy

VIA: Debora Halbert
Associate Vice President for Academic Programs and Policy

VIA: Erika Lacro
Vice President for Community Colleges

VIA: Tammi Oyadomari-Chun
Interim Associate Vice President for Academic Affairs

VIA: Laura Nagle
Dean of Career & Technical Education

FROM: Lui K.Hokoana
Chancellor

SUBJECT: PROGRAM ACTION AT UH MAUI COLLEGE

I have approved the following program actions so that the necessary codes can be established in Banner.

NEW PROGRAM CODES: Effective Term Fall 2021

BAS-SSM-MARS (Sustainable Science Management – Marine Studies Concentration)
AAS-CTEC-BUCO (Construction Technology – Building and Construction Concentration)
AAS-CTEC-FMEC (Construction Technology – Facilities Mechanical Concentration)
AAS-CTEC-FMGT (Construction Technology – Facilities Management Concentration)

If you have any questions or concerns, please contact me at 808-984-3636 or lhokoana@hawaii.edu. Thank you for your assistance.

310 W. Ka'ahumanu Avenue
Kahului, HI 96732-1617
Telephone: 808 984-3655
Fax: 808 984-3546
Website: www.maui.hawaii.edu
An Equal Opportunity/Affirmative Action Institution

Attachments

1. Code Request Form for Academic Programs-BAS-SSM-MARS Marine Science
2. Code Request Form for Academic Programs-AAS-CTEC-BUCO Building and Construction
3. Code Request Form for Academic Programs-AAS-CTEC-FMEC Facilities Mechanical
4. Code Request Form for Academic Programs-AAS-CTEC-FMGT Facilities Management

c: Pearl Iboshi, Director of IRAO
Debra Nakama, Vice Chancellor of Student Affairs
Kahele Dukelow, Dean of Arts & Sciences
Kulamanu Ishihara, Faculty Coordinator

University of Hawai'i
Code Request Form for Academic Programs

NEW OR REPLACE PROGRAM CODE

☒ **New Program Code** ☐ **Replace Program Code** Date: 10/29/2021

REQUESTOR CONTACT INFORMATION

Name: Debie Amby
Title: Banner/Curriculum Specialist
Office/Dept: Dean's Office
Campus:
Email: debie@hawaii.edu
Phone: 808-984-3378

NEW PROGRAM CODE TO CREATE

Institution: UH Maui College
Level: Undergraduate
Campus: UH Maui College
Effective Term: Fall 2021

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) IN	Instructional	☐ See Banner form STVCOLL
Department	(4) V/T	Vocational/Technical	☐ See Banner form STVDEPT
Degree/Certificate	(6) AAS	Associate in Applied Science	☐ See Banner form STVDEGC
Major	(4) CTEC	Construction Technology	☐ See Banner form STVMAJR
Concentration	(4) BUCO	Building and Construction	☐ See Banner form STVMAJR
Minor	(4)		☐ See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: CA-CTEC-BUCO

Justification to warrant a new major/concentration code similar to an existing major/concentration code:

To appropriately reflect the programs new Associate specializations and on the online application.

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 on the online application? *If yes, student may select the code as their only program of study.* ☒ Yes ☐ No

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 Campus? ☐ Yes ☒ No

Is this program/major/certificate financial aid eligible? ☒ Yes ☐ No

Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)? ☐ Yes ☒ No
See http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html

Program Length
In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication. 2.0

Special Program Designations ☐ A ☐ B ☒ N ☐ P ☐ T ☐ U
See Special Program Designations Code Definitions on IRAO Program Code Request webpage

Required Terms of Enrollment: ☒ Fall ☒ Spring ☐ Summer ☐ Extended

Form modified: Oct 20208

University of Hawai'i
Code Request Form for Academic Programs

NEW OR REPLACE PROGRAM CODE

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code _____ Program Description _____

Institution _____ Campus _____

College _____ Department _____

Level _____

Are current students "grandfathered" under the program code? ☐ Yes ☐ No

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

Effective _____ **, old program code will no longer be available to admit or recruit students.**
Term (ie. Fall 2020)

This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.

Effective _____ **, old program code will no longer be available to award degree to students.**
Term (ie. Fall 2020)

This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.

ATTACHMENTS

BOR Approved: Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

☐ BOR Meeting Minutes & Supporting Documents ☐ Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

☐ Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

☒ Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

☐ BOR approved certificate. BOR Meeting/Approval Date: _____

☐ Chancellor approved within an authorized BOR program. BOR Program: _____

☐ Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

Registrar (Print Name)	**Financial Aid Officer** (Print Name)	**For Community Colleges, verification of consultation with OVPCC Academic Affairs:**
Flora Mora	Davileigh Naeole	~~Tammi Oyadomari-Chun~~
Signature 11/5/21 Date	Signature 11/8/21 Date	Signature 1/24/2022 Date
		Della Teraoka, Int Dir of Acad Progs

ADDITIONAL COMMENTS

Form modified: Oct 2020

AAS-CTEC-BUCO
CONSTRUCTION TECHNOLOGY (AAS): BUILDING AND CONSTRUCTION (BUCO) CONCENTRATION

Approved | Fall 2021

Proposal Information

Workflow Status

Proposer

✔ **Clifford Rutherford (Submitter)**
Submitted 11-28-2020

DEPARTMENT (CTE) \\ Curriculum Department Representative

✔ **Lawrence Martinson**
Approved 11-28-2020

DEPARTMENT (CTE) \\ Department Chair

✔ **Thomas Hussey**
Approved 11-29-2020

(CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS

✔ **Timothy Marmack**
Approved 12-31-2020

✔ **Lorelle A S Peros**
Approved 3-4-2021

(ACADEMIC SENATE) \\ SENATE CHAIR

✔ **Rosemary Vierra**
Approved 3-4-2021

(ADMINISTRATION) \\ VCAA

✔ **Kaheleonolani Dukelow**
Approved 6-8-2021

✔ **Laura Nagle**
Approved 5-25-2021

(ADMINISTRATION) \\ CHANCELLOR

✔ **Lui Hokoana**
Approved 6-8-2021

Code
AAS-CTEC-BUCO

Title
CONSTRUCTION TECHNOLOGY (AAS): BUILDING AND CONSTRUCTION (BUCO) CONCENTRATION

Proposal Details

Type of Proposal
New

Proposer Name(s)
Clifford Rutherford

Internal Proposal Date
12/15/2020

Proposal Summary
No major program changes.

Course(s)
All program courses within the degree plan have been updated within the last two (2) years.

Proposal Rationale/Justification
Curriculum actions are being made in order to establish three (3) Banner codes for previously approved pathways.

Proposal Supporting Documents
- UHMC General Catalog 2020-2021 CTEC Map pp. 44-45.pdf

Other Departments Involved
No

Have other departments been consulted?
Yes

Proposal Impact(s) - Articulation
While the Construction Technology program does have articulation agreements with various entities, current proposed curriculum actions will have no impact upon existing articulation agreements.

Proposal Impact(s) - Requirements
No

Proposal Impact(s) - Resources
No changes in staff, equipment or other program resources

Department Vote

Proposer Notes

General Information

Program Title
CONSTRUCTION TECHNOLOGY (AAS): BUILDING AND CONSTRUCTION

Program Level Type
Associate

Degree Type
--

Catalog Description
The Construction Technology program prepares students in general building construction and maintenance of large or small structures. The program allows students to explore different trades prior to selecting a specialization.
Contact the program coordinator for more information.

College

Division

Department
CTE

Learning Outcomes

Outcomes
CTEC PLO 1: Use and maintain appropriate materials, tools, equipment, and procedures to carry out tasks performed on construction projects according to safety and industry standards.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 2: Use math, computer, and oral and written communication skills to solve construction project problems.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 3: Create and maintain accurate documentation of construction and maintenance projects.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 4: Describe industry standard Green Building practices in construction and maintenance projects.
Linked Institution Outcomes
-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 5: Read and interpret blueprints, and/or schematics, and specifications to plan projects.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 6: Demonstrate the craftsmanship standards of dependability, punctuality, and quality.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 7: Examine and use proper mechanical, electrical, and carpentry codes and standards applicable to construction and repair.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---

Program Requirements

Entrance Requirements
None

--
None
Satisfactory Progress Requirements
Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Logic: A
A
- Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Completion Requirements
Requirements for Associate in Applied Science (AAS) Degree: 60 credits
*Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.
**Note: MATH 75X/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.
***Note: Technical Elective requirements as shown for each CA pathway.
****Note: BUS 120 may be substituted FMGT 120
*****Note: SSM 101, SSM 201, and SSM 275 recommended to meet lower division general education requirements and ICS 111 and ICS 184 recommended as technical electives for students wishing to pursue the UH West Oahu BAS-FMGT.

Logic: A and B and C and J and E and F and G and H and I and (D and K and L and M)

A All CTEC- Building Maintenance and Construction CA courses: 37 credits

- All Of these courses:
  - **CARP 120 - Basic Carpentry Skills**
  - **CARP 121 - Framing and Exterior Finish**
  - **CARP 122 - Interior Finish**
  - **FMGT 100 - Introduction to Building Maintenance and Construction**
  - **MAIN 130 - Masonry**
  - **MAIN 140 - Painting & Decorating**
  - **MAIN 150 - Plumbing I**
  - **ELEC 100 - Survey of Electrical Math and Physics**
  - **ELEC 110 - Residential and Light Commercial Wiring**
  - **BLPR 101 - Blueprint & Drafting Foundations**
  - **AEC 110 - Basic AutoCAD** **AND**
  - **OSH 100 - First Aid, CPR, and AED**
  - **OSH 110 - Occupational Safety and Health for Construction**
- And any of the following
  - # Of Credits From these courses: 3
    - **MATH 100 - Survey of Math**
    - **BUSN 189 - Business Math**
  - Or # Of Credits From these types of courses: **3 MATH 100 or above**
- And any of the following
  - # Of Credits From these courses: 3
    - **ENG 100 - Composition I**
    - **ENG 106 - Report Writing**
  - Or # Of Credits From these types of courses: **ENG 100 or above**

B CTEC Readiness Core: 5 credits

- # Of Credits From these courses: 3
  - **ICS 101 - Digitl Tools for Info Wrld** **AND**
  - **BUSN 150 - Intro Busn Computing**
- And # Of Credits From these types of courses: **2 Cooperative Education 193v - in the appropriate alpha**

C Math Requirement: 3 credits (Fulfilled in CA)

- # Of Credits From these courses: 3
  - **MATH 100 - Survey of Math**
  - **MATH 103 - College Algebra**
  - **MATH 107 - Math for Etron & Cmptrs** **AND**
  - **MATH 115 - Intro Stats & Probability**
- Or # Of Credits From these types of courses: **3 MATH 100 or above. *Note: MATH 75X/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.**

J English Requirement: 3 credits (Fulfilled in CA)

- # Of Credits From these courses: 3
  - **ENG 100 - Composition I**
  - **ENG 106 - Report Writing**
  - **ENG 209 - Bus/Mgr Writing** **AND**
  - **ENG 210 - Research Writing**
- Or # Of Credits From these types of courses: **3 English 100 or above. **Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.**

E Communication Requirement: 3 credits

- # Of Credits From these courses: 3
  - **BUS 130 - Business Comun: Oral**
  - **COM 130 - Business Comun: Oral** **AND**
  - **COM 145 - Interpersonal Comun I**
  - **SP 151 - Personal/Public Speech**
  - **SP 251 - Effective Public Speak**

F Humanities Requirement: 3 credits **AND**

- # Of Credits From these types of courses: **3 Humanities elective - 100 or above**

G Social Science Requirement: 3 credits **AND**

- # Of Credits From these types of courses: **3 Social Science elective - 100 or above**

H Natural Science Requirement: 3 credits **AND**

- # Of Credits From these types of courses: **3 Natural Science elective - 100 or above**

I Building and Construction Concentration Technical Electives: 6 credits

- # Of Credits From these courses: 6
  - **AG 235 - Irrigation Princ/Design**
  - **BUS 120 - Principles of Business**
  - **ENRG 101 - Intro to Sustech**
  - **ENRG 103 - Energy Productn Systems**
  - **FMGT 120 - Introduction to Project Management**
  - **FMGT 200 - Mechanical Systems Design and Construction**
  - **FMGT 201 - Facilities Operations and Leadership**
  - **MAIN 155 - Plumbing II**
  - **MAIN 160 - Small Equipment Repair** **AND**
  - **MAIN 165 - Air Conditioning and Refrigeration**
  - **MAIN 166 - HVACR Refrigerant Recovery**
  - **MAIN 167 - HVACR System Design and Controls**
  - **MAIN 170 - Preventive Maintenance**
  - **SSM 101 - Intro Sci of Sustainability**
  - **SSM 201 - Sustainable Bldg Design**
  - **SSM 275 - Basic Energy Productn**
  - **WELD 119D - Welding for Construction Applications**
- Or # Of Credits From these types of courses: **other program courses in the following alphas: AEC, BLPR, CARP, ELEC, ENRG, FMGT, MAIN, WELD**

Group

D BUCO Concentration First Semester (Fall): 14 credits

- # Of Credits From these courses: 2
  - **FMGT 100 - Introduction to Building Maintenance and Construction**
- And # Of Credits From these courses: 3
  - **CARP 120 - Basic Carpentry Skills**
- And any of the following
  - # Of Credits From these courses: 3
    - **ENG 100 - Composition I**
    - **ENG 106 - Report Writing**
  - Or Or higher **AND**
- And any of the following
  - # Of Credits From these courses: 3
    - **MATH 100 - Survey of Math**
  - Or Or higher
  - Or # Of Credits From these courses: 3
    - **BUSN 189 - Business Math**
- And # Of Credits From these courses: 3
  - **ICS 101 - Digitl Tools for Info Wrld**
  - **BUSN 150 - Intro Busn Computing**

K BUCO Concentration Second Semester (Fall): 14 Credits

- # Of Credits From these courses: 3
  - **BUS 130 - Business Comun: Oral**
  - **COM 130 - Business Comun: Oral**
  - **COM 145 - Interpersonal Comun I**
  - **SP 151 - Personal/Public Speech**
  - **SP 251 - Effective Public Speak**
- And # Of Credits From these courses: 3 **AND**
  - **BLPR 101 - Blueprint & Drafting Foundations**
- And # Of Credits From these courses: 3
  - **CARP 121 - Framing and Exterior Finish**
- And # Of Credits From these courses: 2
  - **MAIN 150 - Plumbing I**
- And # Of Credits From these courses: 3
  - **ELEC 100 - Survey of Electrical Math and Physics**

L BUCO Concentration Third Semester (Fall): 15 Credits

- # Of Credits From these courses: **2**
  - **ELEC 110 - Residential and Light Commercial Wiring**
- And # Of Credits From these courses: **4**
  - **AEC 110 - Basic AutoCAD**
- And # Of Credits From these courses: **1**
  - **OSH 100 - First Aid, CPR, and AED**
- And # Of Credits From these courses: **1** **AND**
  - **OSH 110 - Occupational Safety and Health for Construction**
- And # Of Credits From these courses: **3**
  - **CARP 122 - Interior Finish**
- And # Of Credits From these courses: **2**
  - **MAIN 130 - Masonry**
- And # Of Credits From these courses: **2**
  - **MAIN 140 - Painting & Decorating**

M BUCO Concentration Fourth Semester (Spring): 17 Credits

- # Of Credits From these types of courses: **2 Cooperative Education 193v - in the appropriate alpha**
- And # Of Credits From these types of courses: **3 Natural Science elective - 100 or above**
- And # Of Credits From these types of courses: **3 Social Science elective - 100 or above**
- And # Of Credits From these types of courses: **3 Humanities elective - 100 or above**
- And # Of Credits From these types of courses: **6 Technical Electives in the Building Maintenance and Construction (BUCO) Concentration**

BOR Information

Program Justification

Program Mission and Objectives

Program Curriculum Plan

Program Target Group

Program Resources

Program Efficiency

Program Effectiveness

Attachments

University of Hawai'i
Code Request Form for Academic Programs

NEW OR REPLACE PROGRAM CODE

☒ **New Program Code** ☐ **Replace Program Code** Date: 10/29/2021

REQUESTOR CONTACT INFORMATION

Name	Debie Amby	Campus	
Title	Banner/Curriculum Specialist	Email	debie@hawaii.edu
Office/Dept	Dean's Office	Phone	808-984-3378

NEW PROGRAM CODE TO CREATE

Institution	UH Maui College	Campus	UH Maui College
Level	Undergraduate	Effective Term	Fall 2021

	Code (Max. Characters)		Description	Check if requesting new code:
College	(2)	IN	Instructional	☐ See Banner form STVCOLL
Department	(4)	V/T	Vocational/Technical	☐ See Banner form STVDEPT
Degree/Certificate	(6)	AAS	Associate in Applied Science	☐ See Banner form STVDEGC
Major	(4)	CTEC	Construction Technology	☐ See Banner form STVMAJR
Concentration	(4)	FMEC	Facilities Mechanical	☐ See Banner form STVMAJR
Minor	(4)			☐ See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: CA-CTEC-FMEC

Justification to warrant a new major/concentration code similar to an existing major/concentration code:

To appropriately reflect the programs new Associate specializations and on the online application.

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 on the online application? *If yes, student may select the code as their only program of study.*	☒	Yes	☐	No

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 Campus?	☐	Yes	☒	No
Is this program/major/certificate financial aid eligible?	☒	Yes	☐	No
Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)? *See http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html*	☐	Yes	☒	No

Program Length
In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication. 2.0

Special Program Designations ☐ A ☐ B ☒ N ☐ P ☐ T ☐ U
See Special Program Designations Code Definitions on IRAO Program Code Request webpage

Required Terms of Enrollment: ☒ Fall ☒ Spring ☐ Summer ☐ Extended

Form modified: Oct 20208

University of Hawai'i
Code Request Form for Academic Programs

NEW OR REPLACE PROGRAM CODE

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code _____ Program Description _____

Institution _____ Campus _____

College _____ Department _____

Level _____

Are current students "grandfathered" under the program code? ☐ Yes ☐ No

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

Effective _____ **, old program code will no longer be available to admit or recruit students.**
Term (ie. Fall 2020)

This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.

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Term (ie. Fall 2020)

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ATTACHMENTS

BOR Approved: Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

☐ BOR Meeting Minutes & Supporting Documents ☐ Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

☐ Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

☒ Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

☐ BOR approved certificate. BOR Meeting/Approval Date: _____

☐ Chancellor approved within an authorized BOR program. BOR Program: _____

☐ Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

Registrar (Print Name)	**Financial Aid Officer** (Print Name)	**For Community Colleges, verification of consultation with OVPCC Academic Affairs:**
Flora Mora	Davileigh Naeole	~~Tammi Oyadomari-Chun~~
Signature 11/5/21 Date	Signature 11/8/21 Date	Signature 1/24/2022 Date
		Della Teraoka, Int Dir of Acad Progs

ADDITIONAL COMMENTS

Form modified: Oct 2020

AAS-CTEC-FMEC
CONSTRUCTION TECHNOLOGY (AAS): FACILITIES MECHANICAL (FMEC) CONCENTRATION

Approved | Fall 2021

Proposal Information

Workflow Status

Proposer

- ✔ **Clifford Rutherford (Submitter)**
  Submitted 11-28-2020

DEPARTMENT (CTE) \\ Curriculum Department Representative

- ✔ **Lawrence Martinson**
  Approved 11-28-2020

DEPARTMENT (CTE) \\ Department Chair

- ✔ **Thomas Hussey**
  Approved 11-29-2020

(CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS

- ✔ **Timothy Marmack**
  Approved 12-31-2020
- ✔ **Lorelle A S Peros**
  Approved 3-4-2021

(ACADEMIC SENATE) \\ SENATE CHAIR

- ✔ **Rosemary Vierra**
  Approved 3-4-2021

(ADMINISTRATION) \\ VCAA

- ✔ **Kaheleonolani Dukelow**
  Approved 6-8-2021
- ✔ **Laura Nagle**
  Approved 5-25-2021

(ADMINISTRATION) \\ CHANCELLOR

- ✔ **Lui Hokoana**
  Approved 6-8-2021

Code
AAS-CTEC-FMEC

Title
CONSTRUCTION TECHNOLOGY (AAS): FACILITIES MECHANICAL (FMEC) CONCENTRATION

Proposal Details

Type of Proposal
New

Proposer Name(s)
Clifford Rutherford

Internal Proposal Date
12/15/2020

Proposal Summary
No major program changes.

Course(s)
All program courses within the degree plan have been updated within the last two (2) years.

Proposal Rationale/Justification
Curriculum actions are being made in order to establish three (3) Banner codes for previously approved pathways.

Proposal Supporting Documents
- UHMC General Catalog 2020-2021 CTEC Map pp. 44-45.pdf

Other Departments Involved
No

Have other departments been consulted?
Yes

Proposal Impact(s) - Articulation
While the Construction Technology program does have articulation agreements with various entities, current proposed curriculum actions will have no impact upon existing articulation agreements.

Proposal Impact(s) - Requirements
No

Proposal Impact(s) - Resources
No changes in staff, equipment or other program resources

Department Vote

Proposer Notes

General Information

Program Title
CONSTRUCTION TECHNOLOGY (AAS): FACILITIES MECHANICAL (FMEC) CONCENTRATION

Program Level Type
Associate

Degree Type
--

Catalog Description
The Construction Technology program prepares students in general building construction and maintenance of large or small structures. The program allows students to explore different trades prior to selecting a specialization.
Contact the program coordinator for more information.

College

Division

Department
CTE

Learning Outcomes

Outcomes
CTEC PLO 1: Use and maintain appropriate materials, tools, equipment, and procedures to carry out tasks performed on construction projects according to safety and industry standards.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 2: Use math, computer, and oral and written communication skills to solve construction project problems.
Linked Institution Outcomes

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LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 3: Create and maintain accurate documentation of construction and maintenance projects.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 4: Describe industry standard Green Building practices in construction and maintenance projects.
Linked Institution Outcomes
-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 5: Read and interpret blueprints, and/or schematics, and specifications to plan projects.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 6: Demonstrate the craftsmanship standards of dependability, punctuality, and quality.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 7: Examine and use proper mechanical, electrical, and carpentry codes and standards applicable to construction and repair.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---

Program Requirements

Entrance Requirements
None

--
None
Satisfactory Progress Requirements
Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Logic: A
A
- Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Completion Requirements
Requirements for Associate in Applied Science (AAS) Degree: 60 credits
*Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.
**Note: MATH 75X/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.
***Note: Technical Elective requirements as shown for each CA pathway.
****Note: BUS 120 may be substituted FMGT 120
*****Note: SSM 101, SSM 201, and SSM 275 recommended to meet lower division general education requirements and ICS 111 and ICS 184 recommended as technical electives for students wishing to pursue the UH West Oahu BAS-FMGT.

Logic: A and B and (C) and (K) and E and F and G and H and I and (D and J and L and M)

A All CTEC- Facilities Mechanical CA courses: 37 credits

- All of the following
  - All Of these courses:
    - **ENRG 101 - Intro to Sustech**
    - **ENRG 103 - Energy Productn Systems**
    - **FMGT 100 - Introduction to Building Maintenance and Construction**
    - **MAIN 150 - Plumbing I**
    - **MAIN 155 - Plumbing II**
    - **MAIN 160 - Small Equipment Repair**
    - **MAIN 165 - Air Conditioning and Refrigeration**
    - **MAIN 166 - HVACR Refrigerant Recovery**
    - **MAIN 167 - HVACR System Design and Controls**
    - **MAIN 170 - Preventive Maintenance**
    - **ELEC 100 - Survey of Electrical Math and Physics**
    - **ELEC 110 - Residential and Light Commercial Wiring**
    - **BLPR 101 - Blueprint & Drafting Foundations**
    - **OSH 100 - First Aid, CPR, and AED**
    - **OSH 110 - Occupational Safety and Health for Construction**

AND

- And any of the following
  - # Of Credits From these courses: 3
    - **MATH 100 - Survey of Math**
    - **BUSN 189 - Business Math**
  - Or # Of Credits From these types of courses: **3 MATH 100 or above**
- And any of the following
  - # Of Credits From these courses: 3
    - **ENG 100 - Composition I**
    - **ENG 106 - Report Writing**
  - Or # Of Credits From these types of courses: **ENG 100 or above**

B CTEC Readiness Core: 5 credits

- # Of Credits From these courses: 3
  - **ICS 101 - Digitl Tools for Info Wrld**
  - **BUSN 150 - Intro Busn Computing**

AND

- And # Of Credits From these types of courses: **2 Cooperative Education 193v - in the appropriate alpha**

C Math Requirement: 3 credits (Fulfilled in CA)

- # Of Credits From these courses: 3
  - **MATH 100 - Survey of Math**
  - **MATH 103 - College Algebra**
  - **MATH 107 - Math for Etron & Cmptrs**
  - **MATH 115 - Intro Stats & Probability**

AND

- Or # Of Credits From these types of courses: **3 MATH 100 or above. *Note: MATH 75X/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.**

Group

K English Requirement: 3 credits (Fulfilled in CA)

- # Of Credits From these courses: 3
  - **ENG 100 - Composition I**
  - **ENG 106 - Report Writing**
  - **ENG 209 - Bus/Mgr Writing**
  - **ENG 210 - Research Writing**

AND

- Or # Of Credits From these types of courses: **3 English 100 or above. **Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.**

E Communication Requirement: 3 credits

- # Of Credits From these courses: 3
  - **BUS 130 - Business Comun: Oral**
  - **COM 130 - Business Comun: Oral**
  - **COM 145 - Interpersonal Comun I**
  - **SP 151 - Personal/Public Speech**
  - **SP 251 - Effective Public Speak**

AND

F Humanities Requirement: 3 credits

- # Of Credits From these types of courses: **3 Humanities elective - 100 or above**

AND

G Social Science Requirement: 3 credits

- # Of Credits From these types of courses: **3 Social Science elective - 100 or above**

AND

H Natural Science Requirement: 3 credits

- # Of Credits From these types of courses: **3 Natural Science elective - 100 or above**

AND

I Facilities Mechanical Concentration Technical Electives: 6 credits

- # Of Credits From these courses: 6
  - **AEC 110 - Basic AutoCAD**
  - **AG 235 - Irrigation Princ/Design**
  - **BUS 120 - Principles of Business**
  - **CARP 120 - Basic Carpentry Skills**
  - **CARP 121 - Framing and Exterior Finish**
  - **CARP 122 - Interior Finish**
  - **FMGT 120 - Introduction to Project Management**
  - **FMGT 200 - Mechanical Systems Design and Construction**
  - **FMGT 201 - Facilities Operations and Leadership**
  - **MAIN 130 - Masonry**
  - **MAIN 140 - Painting & Decorating**
  - **SSM 101 - Intro Sci of Sustainability**
  - **SSM 201 - Sustainable Bldg Design**
  - **SSM 275 - Basic Energy Productn**
  - **WELD 119D - Welding for Construction Applications**
- Or # Of Credits From these types of courses: **other program courses in the following alphas: AEC, BLPR, CARP, ELEC, ENRG, FMGT, MAIN, WELD**

AND

Group

D FMEC Concentration First Semester (Fall): 15 credits

- # Of Credits From these courses: 2
  - **FMGT 100 - Introduction to Building Maintenance and Construction**
- And # Of Credits From these courses: 3
  - **ENG 100 - Composition I**
  - **ENG 106 - Report Writing**
- And any of the following
  - # Of Credits From these courses: 3
    - **MATH 100 - Survey of Math**
  - Or Or higher
  - Or # Of Credits From these courses: 3
    - **BUSN 189 - Business Math**
- And # Of Credits From these courses: 3
  - **ICS 101 - Digitl Tools for Info Wrld**
  - **BUSN 150 - Intro Busn Computing**
- And # Of Credits From these types of courses: **4 Technical Electives in the Facilities Mechanical (FMEC) Concentration**

AND

J FMEC Concentration Second Semester (Spring): Credits 16

- # Of Credits From these courses: 3
  - **BUS 130 - Business Comun: Oral**
  - **COM 130 - Business Comun: Oral**
  - **COM 145 - Interpersonal Comun I**
  - **SP 151 - Personal/Public Speech**
  - **SP 251 - Effective Public Speak**
- And # Of Credits From these courses: 3
  - **BLPR 101 - Blueprint & Drafting Foundations**
- And # Of Credits From these courses: 3
  - **ELEC 100 - Survey of Electrical Math and Physics**
- And # Of Credits From these courses: 2
  - **MAIN 150 - Plumbing I**
- And # Of Credits From these courses: 2
  - **MAIN 170 - Preventive Maintenance**
- And # Of Credits From these courses: 3
  - **ENRG 101 - Intro to Sustech**

AND

L FMEC Concentration Third Semester (Fall): 14 Credits

- # Of Credits From these courses: **2**
  - **ELEC 110 - Residential and Light Commercial Wiring**
- And # Of Credits From these courses: **2**
  - **MAIN 160 - Small Equipment Repair**
- And # Of Credits From these courses: **2**
  - **MAIN 165 - Air Conditioning and Refrigeration**
- And # Of Credits From these courses: **1**
  - **MAIN 166 - HVACR Refrigerant Recovery**
- And # Of Credits From these courses: **3**
  - **ENRG 103 - Energy Productn Systems**
- And # Of Credits From these courses: **1**
  - **OSH 100 - First Aid, CPR, and AED**
- And # Of Credits From these courses: **1**
  - **OSH 110 - Occupational Safety and Health for Construction**
- And # Of Credits From these types of courses: **2 Technical Electives in the Facilities Mechanical (FMEC) Concentration**

AND

M FMEC Concentration Fourth Semester (Spring): 15 Credits

- # Of Credits From these courses: **2**
  - **MAIN 155 - Plumbing II**
- And # Of Credits From these courses: **2**
  - **MAIN 167 - HVACR System Design and Controls**
- And # Of Credits From these types of courses: **3 Natural Science elective - 100 or above**
- And # Of Credits From these types of courses: **3 Social Science elective - 100 or above**
- And # Of Credits From these types of courses: **3 Humanities elective - 100 or above**
- And # Of Credits From these types of courses: **2 Cooperative Education 193v - in the appropriate alpha**

BOR Information

Program Justification

Program Mission and Objectives

Program Curriculum Plan

Program Target Group

Program Resources

Program Efficiency

Program Effectiveness

Attachments

University of Hawai'i
Code Request Form for Academic Programs

NEW OR REPLACE PROGRAM CODE

☒ **New Program Code** ☐ **Replace Program Code** Date: 10/29/2021

REQUESTOR CONTACT INFORMATION

Name	Debie Amby	Campus	
Title	Banner/Curriculum Specialist	Email	debie@hawaii.edu
Office/Dept	Dean's Office	Phone	808-984-3378

NEW PROGRAM CODE TO CREATE

Institution	UH Maui College	Campus	UH Maui College
Level	Undergraduate	Effective Term	Fall 2021

	Code (Max. Characters)	Description	Check if requesting new code:
College	(2) IN	Instructional	☐ See Banner form STVCOLL
Department	(4) V/T	Vocational/Technical	☐ See Banner form STVDEPT
Degree/Certificate	(6) AAS	Associate in Applied Science	☐ See Banner form STVDEGC
Major	(4) CTEC	Construction Technology	☐ See Banner form STVMAJR
Concentration	(4) FMGT	Facilities Management	☐ See Banner form STVMAJR
Minor	(4)		☐ See Banner form STVMAJR

If a similar major/concentration code exists in Banner, please list the code: CA-CTEC-FMGT

Justification to warrant a new major/concentration code similar to an existing major/concentration code:

To appropriately reflect the programs new Associate specializations and on the online application.

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 on the online application? *If yes, student may select the code as their only program of study.*	☒	Yes	☐	No

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 Campus?	☐	Yes	☒	No
Is this program/major/certificate financial aid eligible?	☒	Yes	☐	No
Does this certificate qualify as a Gainful Employment Program (Title IV-eligible certificate program)? *See http://www.ifap.ed.gov/GainfulEmploymentInfo/index.html*	☐	Yes	☒	No

Program Length
In academic years; decimals are acceptable. The length of the program should match what is published by the campus in any online and/or written publication. 2.0

Special Program Designations ☐ A ☐ B ☒ N ☐ P ☐ T ☐ U
See Special Program Designations Code Definitions on IRAO Program Code Request webpage

Required Terms of Enrollment: ☒ Fall ☒ Spring ☐ Summer ☐ Extended

Form modified: Oct 20208

University of Hawai'i
Code Request Form for Academic Programs

NEW OR REPLACE PROGRAM CODE

EXISTING PROGRAM CODE TO REPLACE, IF APPLICABLE

Program Code _____ Program Description _____

Institution _____ Campus _____

College _____ Department _____

Level _____

Are current students "grandfathered" under the program code? ☐ Yes ☐ No

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

Effective _____ **, old program code will no longer be available to admit or recruit students.**
Term (ie. Fall 2020)

This will turn off the online application, recruitment (effects Banner forms SRASUMI and SRAQUIK) and admissions (effects Banner forms SAADCRV, SAAADMS, SAASUMI, SAAQUIK, and SAAQUAN) Banner modules.

Effective _____ **, old program code will no longer be available to award degree to students.**
Term (ie. Fall 2020)

This will turn off the general student (effects Banner form SGASTDN) and academic history (effects Banner form SHADEGR) Banner modules.

ATTACHMENTS

BOR Approved: Sole-credential Certificate, Associate, Bachelor and Graduate Degrees, and sole credential certificates

☐ BOR Meeting Minutes & Supporting Documents ☐ Curriculum

Chancellor Approved: Concentrations, Certificates and Associate in Technical Studies (ATS) Degree

☐ Memo from Chancellor to notify Vice President for Academic Planning and Policy regarding program action.

☒ Curriculum

CERTIFICATES ONLY: Please check one (1) statement. This certificate is a...

☐ BOR approved certificate. BOR Meeting/Approval Date: _____

☐ Chancellor approved within an authorized BOR program. BOR Program: _____

☐ Chancellor approved CO in accordance with UHCCP 5.203, Section IV.B.10.

VERIFICATIONS

By signing below, I verify that I have reviewed and confirm the above information that is pertinent to my position.

Registrar (Print Name)	**Financial Aid Officer** (Print Name)	**For Community Colleges, verification of consultation with OVPCC Academic Affairs:**
Flora Mora	Davileigh Naeole	~~Tammi Oyadomari-Chun~~
Flora L Mora 11/5/21	Davileigh Naeole 11/8/21	Della Teraoka 1/24/2022
Signature Date	Signature Date	Signature Date
		Della Teraoka, Int Dir of Acad Progs

ADDITIONAL COMMENTS

Form modified: Oct 2020

AAS-CTEC-FMGT
CONSTRUCTION TECHNOLOGY (AAS): FACILITIES MANAGEMENT (FMGT) CONCENTRATION

Approved | Fall 2021

Proposal Information

Workflow Status

Proposer

- ✔ **Clifford Rutherford (Submitter)**
  Submitted 11-28-2020

DEPARTMENT (CTE) \\ Curriculum Department Representative

- ✔ **Lawrence Martinson**
  Approved 11-28-2020

DEPARTMENT (CTE) \\ Department Chair

- ✔ **Thomas Hussey**
  Approved 11-29-2020

(CURRICULUM COMMITTEE CHAIRS) \\ CHAIRS

- ✔ **Timothy Marmack**
  Approved 12-31-2020
- ✔ **Lorelle A S Peros**
  Approved 3-4-2021

(ACADEMIC SENATE) \\ SENATE CHAIR

- ✔ **Rosemary Vierra**
  Approved 3-4-2021

(ADMINISTRATION) \\ VCAA

- ✔ **Kaheleonolani Dukelow**
  Approved 6-8-2021
- ✔ **Laura Nagle**
  Approved 5-25-2021

(ADMINISTRATION) \\ CHANCELLOR

- ✔ **Lui Hokoana**
  Approved 6-8-2021

Code
AAS-CTEC-FMGT

Title
CONSTRUCTION TECHNOLOGY (AAS): FACILITIES MANAGEMENT (FMGT) CONCENTRATION

Proposal Details

Type of Proposal
New

Proposer Name(s)
Clifford Rutherford

Internal Proposal Date
12/15/2020

Proposal Summary
No major program changes.

Course(s)
All program courses within the degree plan have been updated within the last two (2) years.

Proposal Rationale/Justification
Curriculum actions are being made in order to establish three (3) Banner codes for previously approved pathways.

Proposal Supporting Documents
- UHMC General Catalog 2020-2021 CTEC Map pp. 44-45.pdf

Other Departments Involved
No

Have other departments been consulted?
Yes

Proposal Impact(s) - Articulation
While the Construction Technology program does have articulation agreements with various entities, current proposed curriculum actions will have no impact upon existing articulation agreements.

Proposal Impact(s) - Requirements
No

Proposal Impact(s) - Resources
No changes in staff, equipment or other program resources

Department Vote

Proposer Notes

General Information

Program Title
CONSTRUCTION TECHNOLOGY (AAS): FACILITIES MANAGEMENT (FMGT) CONCENTRATION

Program Level Type
Associate

Degree Type
--

Catalog Description
The Construction Technology program prepares students in general building construction and maintenance of large or small structures. The program allows students to explore different trades prior to selecting a specialization.
Contact the program coordinator for more information.

College

Division

Department
CTE

Learning Outcomes

Outcomes
CTEC PLO 1: Use and maintain appropriate materials, tools, equipment, and procedures to carry out tasks performed on construction projects according to safety and industry standards.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 2: Use math, computer, and oral and written communication skills to solve construction project problems.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 3: Create and maintain accurate documentation of construction and maintenance projects.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 4: Describe industry standard Green Building practices in construction and maintenance projects.
Linked Institution Outcomes
-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 5: Read and interpret blueprints, and/or schematics, and specifications to plan projects.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 6: Demonstrate the craftsmanship standards of dependability, punctuality, and quality.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---
CTEC PLO 7: Examine and use proper mechanical, electrical, and carpentry codes and standards applicable to construction and repair.
Linked Institution Outcomes

-- No options selected --
LINKED COURSE OUTCOMES
--- None ---

Program Requirements

Entrance Requirements
None

--
None
Satisfactory Progress Requirements
Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Logic: A
A
- Minimum required GPA 2.0 (C) and the minimum acceptable grade 1.0 (D).

Completion Requirements
Requirements for Associate in Applied Science (AAS) Degree: 60 credits
*Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.
**Note: MATH 75X/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.
***Note: Technical Elective requirements as shown for each CA pathway.
****Note: BUS 120 may be substituted FMGT 120
*****Note: SSM 101, SSM 201, and SSM 275 recommended to meet lower division general education requirements and ICS 111 and ICS 184 recommended as technical electives for students wishing to pursue the UH West Oahu BAS-FMGT.

Logic: A and B and (C) and (K) and E and F and G and H and I and D and J and L and M

A All CTEC- Facilities Management CA courses: 37 credits

- All of the following
  - All Of these courses:
    - **FMGT 100 - Introduction to Building Maintenance and Construction**
    - **FMGT 200 - Mechanical Systems Design and Construction**
    - **FMGT 201 - Facilities Operations and Leadership**
    - **ELEC 100 - Survey of Electrical Math and Physics**
    - **BLPR 101 - Blueprint & Drafting Foundations**
    - **SSM 201 - Sustainable Bldg Design**
    - **BLAW 200 - Legal Environmt Business**
  - And # Of Credits From these courses: 3
    - **ECON 120 - Intro Economics**
    - **ECON 130 - Princ Econ Micro**
    - **ECON 131 - Princ Econ Macro**
  - And # Of Credits From these courses: 3
    - **FMGT 100 - Introduction to Building Maintenance and Construction**
    - **BUS 120 - Principles of Business**

    AND
  - And # Of Credits From these courses: 3
    - **ENRG 101 - Intro to Sustech**
    - **SSM 101 - Intro Sci of Sustainability**
  - And # Of Credits From these courses: 3
    - **ENRG 103 - Energy Productn Systems**
    - **SSM 275 - Basic Energy Productn**
- And any of the following
  - # Of Credits From these courses: 3
    - **ENG 209 - Bus/Mgr Writing**
    - **ENG 210 - Research Writing**
- And any of the following
  - # Of Credits From these courses: 3
    - **MATH 103 - College Algebra**
    - **MATH 115 - Intro Stats & Probability**
  - Or # Of Credits From these types of courses: **3 Or higher**

B CTEC Readiness Core: 5 credits

- # Of Credits From these courses: 3
  - **ICS 101 - Digitl Tools for Info Wrld**
  - **BUSN 150 - Intro Busn Computing**

  AND
- And # Of Credits From these types of courses: **2 Cooperative Education 193v - in the appropriate alpha**

Group

C Math Requirement: 3 credits (Fulfilled in CA)

- # Of Credits From these courses: 3
  - **MATH 103 - College Algebra**
  - **MATH 115 - Intro Stats & Probability**

  AND
- Or # Of Credits From these types of courses: **3 Or Higher. **Note: MATH 75X/82 may be substituted for the Certificate of Achievement or Competence for those not going on for the AAS degree.**

Group

K English Requirement: 3 credits (Fulfilled in CA)

- # Of Credits From these courses: 3
  - **ENG 209 - Bus/Mgr Writing**
  - **ENG 210 - Research Writing**

  AND
- Or # Of Credits From these types of courses: **3 English 100 or above. **Note: ENG 22 may be substituted for the Certificate of Achievement for those not going on for the AAS degree.**

E Communication Requirement: 3 credits

- # Of Credits From these courses: 3
  - **BUS 130 - Business Comun: Oral**
  - **COM 130 - Business Comun: Oral**
  - **COM 145 - Interpersonal Comun I**
  - **SP 151 - Personal/Public Speech**
  - **SP 251 - Effective Public Speak**

  AND

F Humanities Requirement: 3 credits

- # Of Credits From these types of courses: **3 Humanities elective - 100 or above**

  AND

G Social Science Requirement: 3 credits

- # Of Credits From these types of courses: **3 Social Science elective - 100 or above**

  AND

H Natural Science Requirement: 3 credits

- # Of Credits From these types of courses: **3 Natural Science elective - 100 or above**

  AND

I Facilities Management Concentration Technical Electives: 6 credits

- # Of Credits From these courses: 6
  - ICS 111 - Intro Computer Sci I
  - ICS 184 - Networking/Data Commun
  - SSM 101 - Intro Sci of Sustainability
  - SSM 275 - Basic Energy Productn
  - AEC 110 - Basic AutoCAD
  - AG 235 - Irrigation Princ/Design
  - ELEC 110 - Residential and Light Commercial Wiring
  - ENRG 101 - Intro to Sustech
  - ENRG 103 - Energy Productn Systems
  - MAIN 150 - Plumbing I
  - MAIN 155 - Plumbing II
  - MAIN 160 - Small Equipment Repair
  - MAIN 165 - Air Conditioning and Refrigeration
  - MAIN 166 - HVACR Refrigerant Recovery
  - MAIN 167 - HVACR System Design and Controls
  - MAIN 170 - Preventive Maintenance
  - OSH 100 - First Aid, CPR, and AED
  - OSH 110 - Occupational Safety and Health for Construction

AND

- And ICS 111 and ICS 184 recommended as technical electives for students wishing to pursue the BAS-FMGT at UH West Oahu.

D FMGT Concentration First Semester (Fall): 14 Credits

- # Of Credits From these courses: 2
  - FMGT 100 - Introduction to Building Maintenance and Construction
- And # Of Credits From these courses: 3
  - ENG 209 - Bus/Mgr Writing
  - ENG 210 - Research Writing
- And any of the following
  - # Of Credits From these courses: 3
    - MATH 103 - College Algebra
    - MATH 115 - Intro Stats & Probability

AND

  - Or Or higher
- And # Of Credits From these courses: 3
  - ICS 101 - Digitl Tools for Info Wrld
  - BUSN 150 - Intro Busn Computing
- And # Of Credits From these courses: 3
  - ENRG 101 - Intro to Sustech
  - SSM 101 - Intro Sci of Sustainability

J FMGT Concentration Second Semester (Spring): 15 Credits

- # Of Credits From these courses: 3
  - BUS 130 - Business Comun: Oral
  - COM 130 - Business Comun: Oral
  - COM 145 - Interpersonal Comun I
  - SP 151 - Personal/Public Speech
  - SP 251 - Effective Public Speak
- And # Of Credits From these courses: 3
  - BLPR 101 - Blueprint & Drafting Foundations

AND

- And # Of Credits From these courses: 3
  - FMGT 120 - Introduction to Project Management
  - BUS 120 - Principles of Business
- And # Of Credits From these courses: 3
  - ELEC 100 - Survey of Electrical Math and Physics
- And # Of Credits From these courses: 3
  - ENRG 103 - Energy Productn Systems
  - SSM 275 - Basic Energy Productn

L FMGT Concentration Third Semester (Fall): 16 Credits

- # Of Credits From these types of courses: **2 Cooperative Education 193v - In the appropriate alpha**
- And # Of Credits From these courses: **3**
  - **ECON 120 - Intro Economics**
  - **ECON 130 - Princ Econ Micro**
  - **ECON 131 - Princ Econ Macro**
- And # Of Credits From these courses: **3** **AND**
  - **BLAW 200 - Legal Environmt Business**
- And # Of Credits From these courses: **3**
  - **SSM 201 - Sustainable Bldg Design**
- And # Of Credits From these courses: **3**
  - **FMGT 200 - Mechanical Systems Design and Construction**
- And # Of Credits From these types of courses: **2 Technical Electives in the Facilities Management (FMGT) Concentration**

M FMGT Concentration Fourth Semester (Spring): 15 Credits

- # Of Credits From these types of courses: **3 Humanities elective - 100 or above**
- And # Of Credits From these types of courses: **3 Natural Science elective - 100 or above**
- And # Of Credits From these types of courses: **3 Social Science elective - 100 or above**
- And # Of Credits From these courses: **2**
  - **FMGT 201 - Facilities Operations and Leadership**
- And # Of Credits From these types of courses: **4 Technical Electives in the Facilities Management (FMGT) Concentration**

BOR Information

Program Justification

Program Mission and Objectives

Program Curriculum Plan

Program Target Group

Program Resources

Program Efficiency

Program Effectiveness

Attachments