

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.

David Lassner November 23, 2021 Page 2

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	v Prog	ram	Code		Re	plac	e Pr	ograi	m (Code	e		Date:	10/29/	2021		
REQUESTO	R CON	ТАСТ	INFO	RMA	TION												
Name	Debie Amby							Campus									
Title	Banner/Curriculum Specialist							Ema	il	del	oie@l	nawa	ii.edu				
Office/Dept Dean's Office								Pho	ne	808	3-984	-337	8			min -:	
NEW PROC	GRAM (CODE	TO C	REAT	E										,		
Institution								Camp	us		UH	Маι	ui Colle	ege			
	Underg				******			-		Term	₁ Fal	1 202	!1	-			
Level	Onderg		Code			u.s	 Desc	ription	.,	70111				equestii	ng new	code:	
0.11		(2) II	(Max. Chara Ni	cters)	Instru	ctiona	1					П	See Ba	anner for	m STVC	OLL	
College	_	(4) \ (4) \			Vocat			nical				 []	See Banner form STVDEPT				
Department		(4) <u>(</u> (6) <i>F</i>							cier	nce			See Banner form STVDEGC				
Degree/Cer	uncate				Associate in Applied Science Construction Technology						See Banner form STVMAJR						
•	Major (4) CTEC Concentration (4) BUCO				Building and Construction						See Banner form STVMAJR						
Concentrati	on										See Banner form STVMAJR						
Minor	. ,	(4) _			its in Banner, please list the code:						A-CTEC-BUCO						
											majar	_					
Justification															lication	,	
To approp	riately re	eflect	the pro	ogran	ns new A	ASSOC	ate	specia	ıııza	uons	sanu	OH	ne on	ne app	ilcatioi	<u> </u>	
													F.: 1				
Is this majo													×	Yes		No	
Should this on the onlin	program ne applica	be ava	ailable fo <i>If yes, stu</i>	or app dent ma	licants to y select the	select code as	as the their o	eir plan <i>only prog</i>	ned ram q	cours of study	se of si v.	tudy	х	Yes		No	
RULES PE	ERTAINI	NG T	o FINA	NCIA	L AID A	ND 1	50%	DIRE	CT :	SUBS	SIDIZ	ED L	OAN L	IMIT L	E G I S L A	TION	
Is 50% or gi Campus?	reater of	the cla	asses in	this pr	ogram of	fered a	t a lo	cation o	othe	r thar	the F	lome		Yes	х	No	
Is this prog	ram/maio	or/cer	tificate f	inancia	al aid elig	ible?							х	Yes		No	
Does this c							ogram	ı (Title I	V-eli	igible	certifi	icate		Yes	X	No	
program)? See http://www								•									
Program Le In academic ye any online and	ars; decimal	ls are acc ublicatio	ceptable. Ti n.	ne length	of the progr	am shoul	d match	what is p	ublish	ed by th	іе сатрі	ıs in	2.0				
Special Pro See Special Pro Program Code	gram Desig	signati	ons	itions on	IRAO		Α		В		N] P		т [] U	
Required T			nent:		Fall			Spring	3			Sum	mer		Exten	ded	

EXISTING PROGRAM CO	DE TO REPL	ACE, IF APPLICA	BLE			
Program Code		Program Des	cription		and the state of t	
Institution		Campus				
College		Department			NAME OF THE OWNER O	
Level						
Are current students "grandf	athered" under	the program code?			Yes	No
Should the old program code	be available for	r use in Banner?			Yes	No
Effective Term (ie. Fall 2020))			e to admit or recruit s		
This will turn off the online ap forms SAADCRV, SAAADMS, S	plication, recruitr SAASUMI, SAAQUI	nent (effects Banner for K, and SAAQUAN) Bann	ms SRASUMI a er modules.	nd SRAQUIK) and admiss	sions (effects i	Banner
Effective Term (ie. Fall 2020))			e to award degree to		
This will turn off the general s modules.	student (effects Bo	anner form SGASTDN) a	nd academic hi	story (effects Banner for	m SHADEGR)	Banner
ATTACHMENTS						
BOR Approved: Sole-credenti	ial Certificate, As	ssociate, Bachelor and	d Graduate De	grees, and sole crede	ntial certifica	ites
BOR Meeting Minutes & S			p-annealing .	riculum		
Chancellor Approved: Concer						
Memo from Chancellor to	o notify Vice Pre	sident for Academic F	Planning and P	olicy regarding progra	am action.	
Curriculum						1000 (1000 1000 1000 1000 1000 1000 100
CERTIFICATES ONLY: Please	check one (1) s	tatement. This certif	icate is a			
BOR approved certificat						
Chancellor approved wi						
Chancellor approved CC					mana wa wasananan ila	
VERIFICATIONS						
By signing below, I verify the	at I have review	ed and confirm the a	bove informa	tion that is pertinent t	to my positio	on.
Registrar		nancial Aid Officer		For Community C	olleges,	
(Print Name)		rint Name)		verification of cor OVPCC Academic	Affairs:	ith
Flora Mora	Da	vileigh Naeole		Tammi Oyadomar	i-Chun	
Finiton	11/5/21 6	Jarrheighe Nali	ole 11/8/21	Della The	adua	1/24/2022
Signature	Date Sig	gnature	Date	Signature Della Teraoka, Ir		Date ad Progs
ADDITIONAL COMME	NTS					

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	Title					
AAS-CTEC-BUCO	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	st two (2) years.					
Proposal Rationale/Justification Curriculum actions are being made in order to establish three (3) Banner co	des 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 agrees impact upon existing articulation agreements.	ments with various entities, current proposed curriculum actions will have no					
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					
, was a series of the series o						
Catalog Description The Construction Technology program prepares students in general building allows students to explore different trades prior to selecting a specialization Contact the program coordinator for more information.	ng construction and maintenance of large or small structures. The program on.					
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

Α

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 o CARP 121 - Framing and Exterior Finish o CARP 122 - Interior Finish FMGT 100 - Introduction to Building Maintenance and Construction o MAIN 130 - Masonry o MAIN 140 - Painting & Decorating o MAIN 150 - Plumbing I ELEC 100 - Survey of Electrical Math and Physics o ELEC 110 - Residential and Light Commercial Wiring o BLPR 101 - Blueprint & Drafting Foundations o AEC 110 - Basic AutoCAD AND o 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 o # Of Credits From these courses: 3 ■ ENG 100 - Composition I . ENG 106 - Report Writing o Or # Of Credits From these types of courses: ENG 100 or above B CTEC Readiness Core: 5 credits · # Of Credits From these courses: 3 o ICS 101 - Digiti Tools for Info Wrld AND o 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 o MATH 100 - Survey of Math o MATH 103 - College Algebra AND o MATH 107 - Math for Etron & Cmptrs o 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. English Requirement: 3 credits (Fulfilled in CA) • # Of Credits From these courses: 3 o ENG 100 - Composition I o ENG 106 - Report Writing AND o ENG 209 - Bus/Mgr Writing o 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. Communication Requirement: 3 credits · # Of Credits From these courses: 3 o BUS 130 - Business Comun: Oral o COM 130 - Business Comun: Oral AND o COM 145 - Interpersonal Comun I o SP 151 - Personal/Public Speech o SP 251 - Effective Public Speak Humanities Requirement: 3 credits

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

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

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

Social Science Requirement: 3 credits

Natural Science Requirement: 3 credits

AND

AND

AND

Building and Construction Concentration Technical Electives: 6 credits . # Of Credits From these courses: 6 o AG 235 - Irrigation Princ/Design BUS 120 - Principles of Business o ENRG 101 - Intro to Sustech ENRG 103 - Energy Productn Systems o FMGT 120 - Introduction to Project Management o FMGT 200 - Mechanical Systems Design and Construction o FMGT 201 - Facilities Operations and Leadership o MAIN 155 - Plumbing II o MAIN 160 - Small Equipment Repair AND o MAIN 165 - Air Conditioning and Refrigeration o MAIN 166 - HVACR Refrigerant Recovery MAIN 167 - HVACR System Design and Controls MAIN 170 - Preventive Maintenance SSM 101 - Intro Sci of Sustainability o SSM 201 - Sustainable Bldg Design o 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, Group 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 o CARP 120 - Basic Carpentry Skills · And any of the following o # Of Credits From these courses: 3 ■ ENG 100 - Composition I ■ ENG 106 - Report Writing Or Or higher AND · And any of the following o # Of Credits From these courses: 3 ■ MATH 100 - Survey of Math Or Or higher o Or # Of Credits From these courses: 3 ■ BUSN 189 - Business Math And # Of Credits From these courses: 3 o ICS 101 - Digiti Tools for Info Wrid o BUSN 150 - Intro Busn Computing K BUCO Concentration Second Semester (Fall): 14 Credits · # Of Credits From these courses: 3 o BUS 130 - Business Comun: Oral o COM 130 - Business Comun: Oral o COM 145 - Interpersonal Comun I o SP 151 - Personal/Public Speech o 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 o CARP 121 - Framing and Exterior Finish And # Of Credits From these courses: 2 o MAIN 150 - Plumbing I . And # Of Credits From these courses: 3 ELEC 100 - Survey of Electrical Math and Physics

# 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	
o 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	
Atoftem mission and objectives	
Program Curriculum Plan	
Program Target Group	
Flogram ranger Group	
Program Resources	
Program Efficiency	
t rogium amoscino;	
Program Effectiveness	
Attachments	

L BUCO Concentration Third Semester (Fall): 15 Credits

New	/ Prog	ran	ո Cod	e [Repl	ace	Pr	ogram	Code	9		Date	: <u>10/29</u>	/2021			
REQUESTO	R CON	TAC	TINFO	ORMA	TION	l												
Name	Debie Amby							_	Campus									
Title	Banner/Curriculum Specialist							Email debie@hawaii.edu										
Office/Dept Dean's Office							Phone	808	-984	-337	8							
				_														
NEW PROG				CREAT	Έ													
Institution	<u>UH Ma</u>	ui C	ollege					-	Campus				ii Coll	ege				
Level	Underg	grad	uate					_	Effective	Term	Fa	II 202	21					
			Coc (Max. Cha				De	escr	ription			Cl	neck if	requesti	ng new	code:		
College		(2)	•	•	Inst	ructio	nal						See B	anner fo	rm STVC	COLL		
Department			V/T		Voc	ation	al/Te	ch	nical				See B	anner fo	rm STVE	DEPT		
Degree/Cert	ificate	-	AAS		Ass	ociate	e in A	۱pp	lied Scie	nce			See Banner form STVDEGC					
Major	OTEO				Construction Technology								See Banner form STVMAJR					
•	Concentration (4) FMEC				Fac	Facilities Mechanical							See B	anner fo	rm STVN	ИAJR		
Minor		(4)										See Banner form STVMAJR						
If a similar major/concentration code exists in Ba					anner	, pleas	se l'	ist the code	2:		CA	A-CTE	C-FME	С				
Justification	to warra	nt a i	new ma	jor/con	centra	tion co	de sir	nila	ir to an exis	sting m	najor,	/conce	entratio	on code:				
To appropri	iately re	flec	t the p	rogran	ns nev	v Ass	ociat	te s	specializa	tions	and	on th	ne onl	ine app	lication	1.		
Is this major,	/concent	ratio	n code	being u	sed the	e same	way	at t	he other U	H camı	puse	s?	х	Yes		No		
Should this p	_								•		of st	tudy	х	Yes		No		
RULES PE	RTAINII	N G T	O FIN	ANCIA	LAID	AND	150	%	DIRECT	SUBSI	DIZ	ED L	DAN L	IMIT L	EGISLA	TION		
Is 50% or gre Campus?	eater of t	he ci	asses in	this pro	ogram	offere	d at a	loc	ation othe	than t	the H	lome		Yes	х	No		
Is this progra	am/majo	r/cer	tificate	financia	al aid e	ligible	?						x	Yes		No		
Does this ce program)? See <u>http://www.i</u> j			•			ment	Progra	am	(Title IV-eli	gible c	ertifi	cate		Yes	х	No		
Program Ler In academic year any online and/o	rs; decimals			The length	of the pro	ogram sh	ould ma	ıtch v	vhat is publishe	ed by the	сатри	s in	2.0					
Special Prog See Special Prog Program Code R	ram Design	ations		nitions on I	IRAO] A		□ В		N] P		т [] U		
Required Te		_	nent:		Fali]	Spring			Sumn	ner		Extend	led		

Program Code	Program Description										
Institution	Campus										
College	Department	Department									
Level											
Are current students "grandfathered"	" under the program code?	Yes No									
Should the old program code be avail	lable for use in Banner?	Yes No									
Effective , old	d program code will no longer be available	to admit or recruit students.									
This will turn off the online application, forms SAADCRV, SAAADMS, SAASUMI,	recruitment (effects Banner forms SRASUMI ar SAAQUIK, and SAAQUAN) Banner modules.	nd SRAQUIK) and admissions (effects Banner									
Effective , old	d program code will no longer be available	to award degree to students.									
This will turn off the general student (e modules.	ffects Banner form SGASTDN) and academic his	tory (effects Banner form SHADEGR) Banner									
ATTACHMENTS											
	cate, Associate, Bachelor and Graduate Dea	grees, and sole credential certificates									
BOR Approved: Sole-credential Certific											
BOR Approved: Sole-credential Certific BOR Meeting Minutes & Supportin		iculum									
BOR Meeting Minutes & Supporting	ng Documents Curri	iculum									
BOR Meeting Minutes & Supportin Chancellor Approved: Concentrations,	ng Documents Curri Certificates and Associate in Technical Stud	iculum dies (ATS) Degree									
Chancellor Approved: Concentrations,	ng Documents Curri	iculum dies (ATS) Degree									
BOR Meeting Minutes & Supporting Chancellor Approved: Concentrations, Memo from Chancellor to notify Vi Curriculum	ng Documents	iculum dies (ATS) Degree									
BOR Meeting Minutes & Supporting Chancellor Approved: Concentrations, Memo from Chancellor to notify Vi Curriculum CERTIFICATES ONLY: Please check on	Curring Documents Curring Documents Curring Curring Certificates and Associate in Technical Studice President for Academic Planning and Pole (1) statement. This certificate is a	iculum dies (ATS) Degree									
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BOR Meeting Minutes & Supporting Chancellor Approved: Concentrations, Memo from Chancellor to notify Vi Curriculum CERTIFICATES ONLY: Please check on BOR approved certificate. BOR M Chancellor approved within an au Chancellor approved CO in accord VERIFICATIONS By signing below, I verify that I have re Registrar (Print Name)	Currice Certificates and Associate in Technical Studice President for Academic Planning and Poste (1) statement. This certificate is a Deeting/Approval Date:	on that is pertinent to my position. For Community Colleges, verification of consultation with OVPCC Academic Affairs: Tammi Oyadomari-Chun									
BOR Meeting Minutes & Supporting Chancellor Approved: Concentrations, Memo from Chancellor to notify Vi Curriculum CERTIFICATES ONLY: Please check on BOR approved certificate. BOR M Chancellor approved within an au Chancellor approved CO in accord VERIFICATIONS By signing below, I verify that I have re Registrar (Print Name) Flora Mora	Currice Certificates and Associate in Technical Studice President for Academic Planning and Poste (1) statement. This certificate is a Deeting/Approval Date:	on that is pertinent to my position. For Community Colleges, verification of consultation with OVPCC Academic Affairs: Tammi Oyadomari-Chun Della Thabla 1/24/202 Signature Date									

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 update	ed within the last two (2) years.
Proposal Rationale/Justification Curriculum actions are being made in order to establish three	e (3) Banner codes for previously approved pathways.
Proposal Supporting Documents • UHMC General Catalog 2020-2021 CTEC Map pp. 44-4	5.pdf
Other Departments involved No	
Have other departments been consulted? Yes	
Proposal Impact(s) - Articulation While the Construction Technology program does have artic impact upon existing articulation agreements.	culation agreements with various entities, current proposed curriculum actions will have no
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 MECH Program Level Type Associate	ANICAL (FMEC) CONCENTRATION Degree Type
Catalog Description The Construction Technology program prepares students in g allows students to explore different trades prior to selecting a Contact the program coordinator for more information.	general building construction and maintenance of large or small structures. The program a specialization.
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 ontions 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

Α

. 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

                                                                                                                                                  AND
                ■ BLPR 101 - Blueprint & Drafting Foundations
                * 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
          o Or # Of Credits From these types of courses: 3 MATH 100 or above
    · And any of the following
          o # Of Credits From these courses: 3
                ■ ENG 100 - Composition I
                - ENG 106 - Report Writing
          o Or # Of Credits From these types of courses: ENG 100 or above
   B CTEC Readiness Core: 5 credits

    # Of Credits From these courses: 3

          o ICS 101 - Digit! Tools for Info Wrld
                                                                                                                                          AND
         o 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
         o MATH 100 - Survey of Math

    MATH 103 - College Algebra

         o MATH 107 - Math for Etron & Cmptrs
                                                                                                                                             AND
         o MATH 115 - Intro State & 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.
Group
   K English Requirement: 3 credits (Fulfilled in CA)
    . # Of Credits From these courses: 3

    ENG 100 - Composition I

         · ENG 106 - Report Writing
                                                                                                                                                  AND
         o ENG 209 - Bus/Mgr Writing
          o 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
          o BUS 130 - Business Comun: Oral
          o COM 130 - Business Comun: Oral
                                                                                                                                                AND
          o COM 145 - Interpersonal Comun I
          o SP 151 - Personal/Public Speech

    SP 251 - Effective Public Speak

   F Humanities Requirement: 3 credits
    • # Of Credits From these types of courses: 3 Humanities elective - 100 or above
                                                                                                                                          AND
       Social Science Requirement: 3 credits
      # Of Credits From these types of courses: 3 Social Science elective - 100 or above
                                                                                                                                          AND
      Natural Science Requirement: 3 credits

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

                                                                                                                                          AND
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I Facilities Mechanical Concentration Technical Electives: 6 credits
    . # Of Credits From these courses: 6
         o AEC 110 - Basic AutoCAD
         o AG 235 - Irrigation Princ/Design

    BUS 120 - Principles of Business

         o CARP 120 - Basic Carpentry Skills
         o CARP 121 - Framing and Exterior Finish
         o CARP 122 - Interior Finish
         o FMGT 120 - Introduction to Project Management
         o FMGT 200 - Mechanical Systems Design and Construction
                                                                                                                                            AND
         o FMGT 201 - Facilities Operations and Leadership
         o MAIN 130 - Masonry
         · MAIN 140 - Painting & Decorating
         o SSM 101 - Intro Sci of Sustainability
         o SSM 201 - Sustainable Bldg Design
         o 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 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
         o ENG 100 - Composition I
         o ENG 106 - Report Writing
   · And any of the following
         o # Of Credits From these courses: 3
               ■ MATH 100 - Survey of Math
                                                                                                                                        AND
         o Or Or higher
         o Or # Of Credits From these courses: 3
               ■ BUSN 189 - Business Math
   . And # Of Credits From these courses: 3
         o ICS 101 - Digitl Tools for Info Wrld
         o BUSN 150 - Intro Busn Computing

    And # Of Credits From these types of courses: 4 Technical Electives in the Facilities Mechanical (FMEC) Concentration

    J FMEC Concentration Second Semester (Spring): Credits 16

    # Of Credits From these courses; 3

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

    And # Of Credits From these courses: 3
```

o ENRG 101 - Intro to Sustech

· # Of Credits From these courses: 2 o ELEC 110 - Residential and Light Commercial Wiring • And # Of Credits From these courses: 2 o MAIN 160 - Small Equipment Repair · And # Of Credits From these courses: 2 o MAIN 165 - Air Conditioning and Refrigeration · And # Of Credits From these courses: 1 AND MAIN 166 - HVACR Refrigerant Recovery • And # Of Credits From these courses: 3 ENRG 103 - Energy Productn Systems · And # Of Credits From these courses: 1 o OSH 100 - First Ald, CPR, and AED . And # Of Credits From these courses: 1 o 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 M FMEC Concentration Fourth Semester (Spring): 15 Credits . # Of Credits From these courses. 2 o MAIN 155 - Plumbing II · And # Of Credits From these courses: 2 o 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**

L FMEC Concentration Third Semester (Fall): 14 Credits

Mev Nev	v Prog	ran	n Cod	e [R	epla	ce P	rogram	ı C	ode		Date	10/29	9/2021	······································		
REQUESTO	OR CON	ITAC	T INF	ORMA	TION												
Name	Debie Amby							Campus									
Title	Banner/Curriculum Specialist						Email debie@hawaii.edu										
Office/Dept Dean's Office							Phone	9	808-9	84-3378							
NEW PROC	SBVVV	COD	F TO	CDEAT	F												
Institution			-					Campu	_	1	IH Ma	aui Colle	ane				
	Under					Campus UH M Effective Term Fall 20							-ye				
Level	Under	grau						ETTECTIV	e i	ierm <u>r</u>	-all ZC	J <u>~</u> I					
			Coo (Max. Cha				Desc	ription			1	Check if ı	equesti	ing new	code:		
College		(2)		,	Instru	uctiona	al				Γ	See Ba	nner fo	rm STVC	OLL		
Department	•	(4)	V/T		Voca	tional/	Tech	nical				See Ba	See Banner form STVDEPT				
Degree/Cert	ificate	(6)	AAS		Associate in Applied Science						See Banner form STVDEGC						
Major				Construction Technology						See Banner form STVMAJR							
Concentration	Concentration (4) FMGT			Facilities Management						See Banner form STVMAJR							
Minor		(4)									See Banner form STVMAJR						
If a similar m	najor/cor	ncent	ration c	ode exis	ts in Ba	nner, p	lease	list the co	de:	•	_ (CA-CTE	C-FMC	ЭT			
Justification	to warra	nt a	new ma	jor/cond	centratio	on code	e simil	ar to an e	cisti	ing maj	or/con	centratio	n code:				
To appropr	iately re	eflec	t the p	rogram	s new	Assoc	ciate	specializ	ati	ons ar	nd on	the onli	ne app	lication	1.		
Is this major	/concen	tratio	n code	being us	ed the s	same w	ay at	the other	UH	campu	ses?	х	Yes		No		
Should this pon the onlin				• •				=			f study	x	Yes		No		
RULES PE	RTAINI	NG T	O FIN	ANCIA	LAID	AND 1	50%	DIRECT	S	UBSID	IZED	LOAN L	IMIT L	EGISLA	TION		
Is 50% or gro	eater of	the cl	asses in	this pro	ogram o	ffered a	it a lo	cation oth	er t	than the	Home	e 🗌	Yes	х	No		
Is this progr	am/majo	or/cer	tificate	financia	ıl aid eliş	gible?						х	Yes		No		
Does this ce program)? See <u>http://www.i</u>						nent Pro	ogram	(Title IV-e	eligi	ible ceri	tificate		Yes	х	No		
Program Ler In academic year any online and/o	rs; decimals			The length o	of the prog	ram should	d match	what is public	hed	by the can	apus in	2.0					
Special Prog See Special Prog Program Code I	gram Design	ations		nitions on l	RAO		Α	В			N [<u></u> Р		т [] U		
Required Te			nent:		all			Spring			Sum	ımer		Extend	led		

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

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
Proposał 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 establis	sh three (3) Banner codes for previously approved pathways.
Proposal Supporting Documents • UHMC General Catalog 2020-2021 CTEC Map p	p. 44-45.pdf
Other Departments Involved No	
Have other departments been consulted? Yes	
Proposal Impact(s) - Articulation While the Construction Technology program does ha impact upon existing articulation agreements.	ve articulation agreements with various entities, current proposed curriculum actions will have no
Proposal impact(s) - Requirements No	
Proposal Impact(s) - Resources No changes in staff, equipment or other program res	sources
Department Vote	
Proposer Notes	
General Information	
Program Title CONSTRUCTION TECHNOLOGY (AAS): FACILITIES M	ANAGEMENT (FMGT) CONCENTRATION
Program Level Type Associate	Degree Type
Catalog Description The Construction Technology program prepares stud allows students to explore different trades prior to se Contact the program coordinator for more informatic	lents in general building construction and maintenance of large or small structures. The program electing a specialization. on.
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

Α

. 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
 - o 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
 - o And # Of Credits From these courses: 3
 - ECON 120 Intro Economics
 - = ECON 130 Princ Econ Micro
 - ECON 131 Princ Econ Macro
 - o And # Of Credits From these courses: 3
 - FMGT 100 Introduction to Building Maintenance and Construction
 - BUS 120 Principles of Business
 - o And # Of Credits From these courses: 3
 - ENRG 101 Intro to Sustech
 - SSM 101 Intro Sci of Sustainability
 - o And # Of Credits From these courses: 3
 - ENRG 103 Energy Productn Systems
 - SSM 275 Basic Energy Productn
- · And any of the following
 - o # Of Credits From these courses: 3
 - . ENG 209 Bus/Mgr Writing
 - ENG 210 Research Writing
- · And any of the following
 - o # Of Credits From these courses: 3
 - MATH 103 College Algebra
 - MATH 115 Intro Stats & Probability
- o Or # Of Credits From these types of courses: 3 Or higher
- B CTEC Readiness Core: 5 credits
- . # Of Credits From these courses: 3
 - o ICS 101 Digiti Tools for Info Wrld
 - o BUSN 150 Intro Busn Computing
- And # Of Credits From these types of courses: 2 Cooperative Education 193v in the appropriate alpha

Group

- Math Requirement: 3 credits (Fulfilled in CA)
- # Of Credits From these courses: 3
 - - o MATH 115 Intro Stats & Probability
- 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

- English Requirement: 3 credits (Fulfilled in CA)
- . # Of Credits From these courses: 3
 - o ENG 209 Bus/Mgr Writing
 - o 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
 - o BUS 130 Business Comun: Oral
 - o COM 130 Business Comun: Oral
 - COM 145 Interpersonal Comun I o SP 151 - Personal/Public Speech
 - SP 251 Effective Public Speak
- F Humanities Requirement: 3 credits
- # Of Credits From these types of courses: 3 Humanities elective 100 or above
- Social Science Requirement: 3 credits # Of Credits From these types of courses: 3 Social Science elective - 100 or above
- Natural Science Requirement: 3 credits
- # Of Credits From these types of courses: 3 Natural Science elective 100 or above

AND

AND

AND

AND

AND

AND

AND

AND

```
Facilities Management Concentration Technical Electives: 6 credits
. # Of Credits From these courses: 6
      o ICS 111 - Intro Computer Sci I
     o ICS 184 - Networking/Data Commun

    SSM 101 - Intro Sci of Sustainability

      o SSM 275 - Basic Energy Productn
     o AEC 110 - Basic AutoCAD
     o AG 235 - Irrigation Princ/Design
     o ELEC 110 - Residential and Light Commercial Wiring
     o ENRG 101 - Intro to Sustech
     o ENRG 103 - Energy Productn Systems
                                                                                                                                         AND
     o MAIN 150 - Plumbing I
      o MAIN 155 - Plumbing II
      o MAIN 160 - Small Equipment Repair
      o MAIN 165 - Air Conditioning and Refrigeration
      o MAIN 166 - HVACR Refrigerant Recovery
      o MAIN 167 - HVACR System Design and Controls
      o MAIN 170 - Preventive Maintenance
      o OSH 100 - First Aid, CPR, and AED
      o OSH 110 - Occupational Safety and Health for Construction
· And ICS 111 and ICS 184 recommended as technical electives for students wishing to pursue the BAS-FMGT at UH West Oahu.
  FMGT Concentration First Semester (Fall): 14 Gredits
• # Of Credits From these courses: 2
      o FMGT 100 - Introduction to Building Maintenance and Construction
 · And # Of Credits From these courses: 3
      o ENG 209 - Bus/Mgr Writing
      o ENG 210 - Research Writing
 · And any of the following
      o # Of Credits From these courses: 3
            ■ MATH 103 - College Algebra
                                                                                                                                        AND
            . MATH 115 - Intro Stats & Probability
      o Or Or higher
 · And # Of Credits From these courses: 3
       o ICS 101 - Digitl Tools for Info Wrld

    BUSN 150 - Intro Busn Computing

 . And # Of Credits From these courses: 3
       o ENRG 101 - Intro to Sustech
       o SSM 101 - Intro Sci of Sustainability
J FMGT Concentration Second Semester (Spring): 15 Credits
• # Of Credits From these courses: 3
      o BUS 130 - Business Comun: Oral
      o COM 130 - Business Comun: Oral
      o COM 145 - Interpersonal Comun I
       o SP 151 - Personal/Public Speech
       o SP 251 - Effective Public Speak
 • And # Of Credits From these courses: 3
       o BLPR 101 - Blueprint & Drafting Foundations
                                                                                                                                         AND
 · And # Of Credits From these courses: 3
       o FMGT 120 - Introduction to Project Management
       o BUS 120 - Principles of Business
 • And # Of Credits From these courses: 3
       o ELEC 100 - Survey of Electrical Math and Physics

    And # Of Credits From these courses: 3

       o ENRG 103 - Energy Productn Systems
       o SSM 275 - Basic Energy Productn
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- 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
 - o ECON 120 Intro Economics
 - o ECON 130 Princ Econ Micro
 - o ECON 131 Princ Econ Macro
- And # Of Credits From these courses: 3
 - o BLAW 200 Legal Environmt Business
- · And # Of Credits From these courses: 3
 - SSM 201 Sustainable Bldg Design
- And # Of Credits From these courses: 3
 - o 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
 - o 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

AND