





# UNIVERSITY OF HAWAI'I MEMORANDUM OF AGREEMENT

University of Hawai'i at Mānoa (UHM), Kapi'olani Community College and Leeward Community College

Admission to the University of Hawai'i at Mānoa College of Engineering upon successful completion of the Associate of Science in Natural Science (ASNS) with a concentration in engineering.

The purpose of this agreement is to facilitate the transfer of students who complete the Associate of Science in Natural Science with a concentration in engineering at Kapi'olani Community College and Leeward Community College to the University of Hawai'i at Mānoa College of Engineering.

Students who complete the AS NS in engineering at Kapi'olani Community College and Leeward Community College with a minimum GPA of 2.0 or higher will be admitted to the UHM College of Engineering as transfer student. Students who complete the ASNS with a concentration in engineering will be eligible for the offer of automatic admission to the UHM College of Engineering in the semester they complete the ASNS degree. The University of Hawai'i Office of the Executive Vice President for Academic Affairs/Provost will be responsible for including this degree into the automatic admission process.

Any proposed changes to the degree requirements in the ASNS with a concentration in engineering or admission requirements to the UHM College of Engineering are to be communicated to the Vice Chancellor for Academic Affairs or their designee in a timely manner. Changes made without agreement among the involved campuses may invalidate this agreement.

Degree requirements (2012-2013) for the ASNS with a concentration in engineering are attached.

The terms of this agreement are subject to prevailing University policies. Amendments to this agreement must be in writing and approved by designated representatives of each campus. Any party may terminate this agreement for cause by giving written notice to the designated representatives at least 90 days prior to the commencement of a new academic term

## Signatures

## University of Hawaiʻi at Mānoa

Tom Apple Chancellor	Date
Reed Dasenbrock	Date
Vice Chancellor Academic Affairs	
Peter Crouch	Date
Dean, College of Engineering	
Kapi'olani Community College	
Leon Richards	Date
Chancellor	
Louise Pagotto	Date
Vice Chancellor Academic Affairs	
Leeward Community College	
Manuel Cabral	Date
Chancellor	
Michael Pecsok	Date
Vice Chancellor Academic Affairs	

#### LEEWARD COMMUNITY COLLEGE

rev. 10/27/2011

ASSOCIATE IN SCIENCE - NATURAL SCIENCE (AS-NS) DEGREE REQUIREMENTS (Effective Spring 2012)

The Associate of Science Degree (A.S	Natural Science) is awarded	to students who complete the	following:	<u> </u>		
1) 60 credits, all in course	s numbered 100 or above.	4) Two writing	ng intensive cou	rses in any disc	ipline.	
2) The last 12 Concentration	waiian, Asian, Pacific (HAP) course.					
credits must be earned a	at Leeward Community Coll	ege. 6) Cumulativ	e grade point av	verage of 2.0 or	higher for all	
3) A maximum of 48 trans	fer credits earned at other co	olleges courses nu	mbered 100 or	above complete	d at Leeward	CC.
may be applied towards	the degree.	7) General ed	ducation and pro	ogram requireme	ents, as indica	ted below.
	** >			_		
Foundation Requirements (13 cre			Category	Course	Grade	Credits
Foundation Written Communication (	FW) (3 credits required)					
English 100 or ESL 100/ENG 100E			FW			3
<ol> <li>Foundation Symbolic Reasoning (FS Math 205</li> </ol>	) (4 credits required)		FS			
II. Foundation Global Multicultural Pers	enactives (EG) (6 credits rea	uired from 2 around)	15		<del></del>	4
GROUP A: Anth 151, Art	-	uned from 2 groups)	FG			3
GROUP B: Anth 152, Art		•			-	J
GROUP C: Geog 151, Ma			FG	:		3
OROOT C. Geog 131, Mil	us 107, Rei 130		10			
TOTAL FOUNDATION CREDITS (FW	V + FS + FG)		Total Founda	tion Credits		13
Diversification Requirements (10	1		-			
V. Diversification Social Sciences (DS)	• •					
American Studies 211, 212		ience 110, 120, 130, 180				<del></del>
Anthropology 150, 200, 21	· · ·	100, 180, 202, 240, 260				,
Geography 102	1* (*Engineering students n	00, 214, 218, 231, 250, 251	DS			3
Interdisciplinary Studies 2	==	rudies 151, 290				
<ul> <li>V. Diversification Arts, Humanities, and Diversification Arts (DA)</li> </ul>	Literature (DA/DH/DL) (3	creans requirea)				
	Art 101	D 101	.N	2 201 202 202	204	
(Mainly Theory) (Mainly Practice)		Drama 101		3, 281, 282, 283		
(Mainly Flactice)	Dance 121, 131, 132, 160,	C, 106, 107, 107D, 112, 113,			243, 244	
		, 180 . 114, 121, 122, 180, 201, 221,	Drama 221, 22	2, 240, 200		
Diversification Humanities (DH)	Speech 251 (Available)	for Engineering students only.,	,			
American Studies 201, 202	) History 231	, 232, 241, 242, 260, 281, 282	284			
Art 171, 172, 180	IS 250H	, 232, 241, 242, 200, 201, 202	Philosophy 100, 101, 102, 200, 201, 211, 212, 213			
Asian Studies 203, 204	Linguistics	102		200, 201, 202, 200 200, 201, 202, 2		•
Geography 122	Music 106,		Rengion 151,	200, 201, 202, 2	05, 204, 205,	207, 210
Hawaiian Studies 107	1714510 1003	203, 200				
Diversification Literature (DL)			D_ ]			3
East Asian Language & Li	terature 271, 272	Humanities 261, 262		l		
<del>_</del>	3, 254, 255, 256, 257H, 257N	*				
/I. Diversification Natural Science (DB				:		
Diversification Biological (DB) (3 credit	, · ·	*Not required for				
Anth 215	Engineering but Biol 101,					
Biol 100, 101, 124, 130, 13	171, Micr 130 or Zool 101	DB* **				
Bot 101, 130	Sci 107	suggested for CEE.				
Fshn 185	Zool 101, 200, 240, 241	**Life Science must		İ		
Micr 130		choose Biol 171.	DP			3
Diversification Physical (DP) (3 credits r	equired)					
Chem 161	(Chem 161E	3 = 3  cr.  161 + 1  cr.  161L)		İ		
Diversification Laboratory (DY) (1 credi	t required)		DY			1
Chem 161L						
OTAL DIVERSIFICATION CREDITS	(DS + DA/DH/DL + D/B/D)	(DP/DY) (IV + V + VI)	Total Diversi	fication Credit	s	

VII. Additional Requirements (6 - 7 credits required)					Category	Course	Grade	Credits		
Computer Competency (CC) (3 credits required)										
ICS 101							CC			3
1	EE 150* (*Engineering students only and they must choose this course.)						l			
General Chemistry (GC) (3 - 4 credits required*)			GC			3				
Chem 162				•	3 = 3  cr.  162 =	+ 1 cr. 162L)				
Chem 162	2L*	(*Not requi	red for Engine	ering.)			GC*			
TOTAL ADDITIONAL REQUIREMENTS CREDITS (VII)					Total Addition	onal Credits				
VIII. Concentration Requirements (5 - 23 credits required)					Semester	Course	Grade	Credits		
									-	
	Select one of	of the Natural S	Science Conce	ntrations						
Life	e Science	Physic	al Science	Eng	ineering					
Biol 171L	1 cr.	Math 206	4 cr.	Math 206	4 cr.					
Biol 172	3 cr.	Phys 170	4 cr.	Phys 170	4 cr.					
Biol 172L	l cr.	Phys 170L	1 cr.	Phys 170L	1 cr.	- 1				
		Phys 272	3 cr.	Phys 272	3 cr.					
		Phys 272L	1 cr.	Phys 272L	1 cr.	1				
				Math 231	3 cr.	i				
				Math 232	3 cr.	_				ļ
				EE 211 or	4 cr. or					
				CE 270	3 cr.			.=		
TOTAL CO	NCENTRATI	ON DECITION	MENTS CDE	DITS (VIII)			Total Concer	ntration Credit	c	
TOTAL CO	MCLINIA	ON REQUIRE	MENTOCKE	DI13 (+111)	•	-	Total Conce	manon credit	0	ļ
Total Four	ndation (I, II,	III) + Divorci	fication (IV	V VI) +						Nat. Sci.
	l (VII) + Cond								_	•
Auditiona			alliramante i	VIIII		60 -		=		■ Electives
	. Con	zemianon Ke	quirements (	VIII)		60 -		=	L	Electives
IX. Natu			-			60 -	Semester	= Course	<b>G</b> rade	Electives  Credits
	ral Science l	Electives (8	- 22 credits	required)		. 60 -	Semester		Grade	•
	ral Science l	Electives (8	- 22 credits	required)		60 -	Semester		Grade	•
	ral Science l	Electives (8	- 22 credits	required)	Phrm 203	60 -	Semester		Grade	•
	ral Science l	Electives (8 your program	- 22 credits which are <u>not</u>	required) chosen above.		. 60 -	Semester		Grade	•
	ral Science les required for	Electives (8 your program Bot 101	- 22 credits which are not	required) chosen above. Math 206	Phrm 203 Phys 151	(Life Sci. only)	Semester		Grade	•
	ral Science les required for	Electives (8 your program Bot 101 Bot 101L	- 22 credits which are not GG 101 GG 101L	required) chosen above. Math 206 Math 206L	Phrm 203 Phys 151 Phys 151L	(Life Sci. only) (Life Sci. only)	Semester		Grade	•
	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L	Electives (8 your program Bot 101 Bot 101L Bot 130 Chem 272B	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110	required) chosen above.  Math 206 Math 206L Math 231 Math 232	Phrm 203  Phys 151  Phys 151L  Phys 152	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172	Electives (8 your program Bot 101 Bot 101L Bot 130	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110	required) chosen above.  Math 206 Math 206L Math 231	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L	(Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I res required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B	- 22 credits which are not  GG 101 GG 101L GG 103 Hort 110 ICS 111	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213	Phys 151 Phys 151L Phys 152 Phys 152L Phys 170	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I res required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213 Micr 130	Phrm 203  Phys 151  Phys 151L  Phys 152  Phys 152L  Phys 170  Phys 170L	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I res required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110  ICS 111 ICS 141 ICS 211	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213	Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110  ICS 111 ICS 141 ICS 211 ICS 212	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140	Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I res required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110  ICS 111 ICS 141 ICS 211	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140  OCN 201	Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110  ICS 111 ICS 141 ICS 211 ICS 212	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275	Blectives (8 your program  Bot 101 Bot 101L Bot 130  Chem 272B Chem 273B  CE 270 CE 271  EE 150 EE 211 EE 213	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110  ICS 111 ICS 141 ICS 211 ICS 212	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140  OCN 201	Phys 151 Phys 151L Phys 152L Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211	- 22 credits which are not  GG 101 GG 101L GG 103  Hort 110  ICS 111 ICS 141 ICS 211 ICS 212	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140  OCN 201	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)			Grade	•
Select class	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211 EE 213 EE 260	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140  OCN 201 OCN 201L	Phys 151 Phys 151L Phys 152L Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•
Select class	ral Science I les required for Bioc 241 Bioc 251 Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211 EE 213 EE 260	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140  OCN 201 OCN 201L	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)				•
Select class	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L	Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211 EE 213 EE 260	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241	required) chosen above.  Math 206 Math 206L Math 231 Math 232  ME 213  Micr 130 Micr 140  OCN 201 OCN 201L	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•
TOTAL NA	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L  STURAL SCIE	Blectives (8 your program Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211 EE 213 EE 260 NCE ELECTI	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241  VES CREDIT	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213 Micr 130 Micr 140 OCN 201 OCN 201L S (IX)	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•
TOTAL NA	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L	Blectives (8 your program Bot 101 Bot 101L Bot 130 Chem 272B Chem 273B CE 270 CE 271 EE 150 EE 211 EE 213 EE 260 NCE ELECTI	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241  VES CREDIT	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213 Micr 130 Micr 140 OCN 201 OCN 201L S (IX)	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•
TOTAL NA	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172 Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L  STURAL SCIE	Blectives (8 your program  Bot 101 Bot 101L Bot 130  Chem 272B Chem 273B  CE 270 CE 271  EE 150 EE 211 EE 213 EE 260  NCE ELECTIV	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241  VES CREDIT	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213 Micr 130 Micr 140 OCN 201 OCN 201L S (IX)	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•
TOTAL NA  Total Credit Writing Inte	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172L Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L  STURAL SCIE  ats (Add I + II + cursive Courses	Blectives (8 your program  Bot 101 Bot 101L Bot 130  Chem 272B Chem 273B  CE 270 CE 271  EE 150 EE 211 EE 213 EE 260  NCE ELECTIVE  III + IV + V + V + (2 courses)	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241  VES CREDIT	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213 Micr 130 Micr 140 OCN 201 OCN 201L S (IX)	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•
TOTAL NA  Total Credit Writing Inte	ral Science I res required for Bioc 241 Bioc 251  Biol 171 Biol 171L Biol 172L Biol 172L Biol 265 Biol 265L Biol 275 Biol 275L  ATURAL SCIE  ats (Add I + II +	Blectives (8 your program  Bot 101 Bot 101L Bot 130  Chem 272B Chem 273B  CE 270 CE 271  EE 150 EE 211 EE 213 EE 260  NCE ELECTIVE  III + IV + V + V + (2 courses)	- 22 credits which are not GG 101 GG 101L GG 103 Hort 110 ICS 111 ICS 141 ICS 211 ICS 212 ICS 241  VES CREDIT	required) chosen above.  Math 206 Math 206L Math 231 Math 232 ME 213 Micr 130 Micr 140 OCN 201 OCN 201L S (IX)	Phrm 203 Phys 151 Phys 151L Phys 152 Phys 152L Phys 170 Phys 170L Phys 272 Phys 272L Phys 274 Zool 200 Zool 240	(Life Sci. only) (Life Sci. only) (Life Sci. only)		Course		•

Student Name:	Date:

#### THE UNIVERSITY OF HAWAII - KAPI'OLANI COMMUNITY COLLEGE

### ASSOCIATE IN SCIENCE (A.S.) DEGREE IN NATURAL SCIENCE--CONCENTRATION IN PRE-ENGINEERING

60 Credits minimum of 100-200 level courses: 2.0 grade point ratio (GPR) minimum

#### Effective Fall 2012

I. GENERAL EDUCATION REQ	JIREMENTS (19 Credits)		COURSE	CR	GR	
Written Communication (FW): (1 course)						
ENG 100 or ESL 100 (Composition I)						
Symbolic Reasoning (FS): (1 course)						
MATH 205 (Calculus I)						
Global & Multicultural Perspectives (FG): (2 cours	es only, choose one course from two different groups be	łow:)				
Group A. ANTH 151, HIST 151	Group A. ANTH 151, HIST 151					
Group B. ANTH 152, GEOG 102, HIST 152	GEOG 102, 151, MUS 107, REL 150 count as FG if taken Fall 2003 semester or later.					
Group C. GEOG 151, MUS 107, REL 150						
*Arts, Humanities, & Literature: (1 course only; choose	e one course from any group below:)					
Arts (DA):	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
ART 101, 105, 106J, 107, 111, 112, 113, 114, 115, 116, 123, 125,		1				
192 (any alpha), 195, 201, 202, 207, 209, 212, 213, 214, 222, 223,		1		ı		
259, 260, 266, 269 (any alpha), 288, 289, 293V, 295, 296; DNCE 122B, 122C, 122D, 183, 201, 206, 221B, 229, 230, 231B, 231C, 2				l		
Humanities (DH):				ł		
AMST 201, 202; ART 190 (any alpha), 270, 280, 290; CHNS 131,						
HUM 269; HWST 100, 107, 210, 216; IS 109; JPNS 131, 132, 290 PHIL 100, 101, 102, 103, 211, 213, 250; REL 151, 200, 201, 202,						
(DL) Literature & Language:	205, 210, 220, 222, 021 202			ı		
EALL 261, 262, 269, 271, 272; EL 263; ENG 200, 209, 214, 215, 2	25, 227, 256, 257C, 257P, 270 (any alpha), 271 (any alp	nha),		l		
272 (any alpha), 273 (any alpha); HAW 261, 262; HWST 270; JO	JR 205, 227; LLEA 239, 260; PACS 257 (Also listed as	ENG 257C); SPAN 250				
*Social Sciences (DS): (1 course only)						
AMST 211, 212; ANTH 150, 200, 210, 235; ASAN 100; BOT 105; COM 201; ECON 120, 130, 131; FAMR 230; GEOG 210; JOUR 150						
LAW 101; PACS 108; POLS 110, 120, 130, 171, 207, 270; PSY 10						
SOC 100, 214, 218, 231, 251, 257; SOCS 225; SP 181; SSCI 200						
II. CHEMISTRY COURSES (7 Cr	edits)		COURSE	CR	GR	
General Chemistry (GC:) (2 courses and 1 lab)	MATURES December	MATIL 405		- 1		
CHEM 161 (General Chemistry I) Prerequisite(s): MATH 103 or hig CHEM 161L (General Chemistry I Lab) Prerequisite(s): MATH 103	· · · · · · · · · · · · · · · · · · ·	geg: MATH 135.				
CHEM 162 (General Chemistry II) Prerequisite(s): CHEM 161 and MATH 103. Recommended Preparation: MATH 135						
III. PRE-ENGINEERING (28 - 29	Credits)		COURSE	CR	GR	
EE 160 (Programming for Engineers) Prerequisite(s): MATH 135.	Recommended Preparation: MATH 140					
MATH 206 (Calculus II) Prerequisite(s): A grade of "C" or higher in						
PHYS 170 (General Physics I) Prerequisite(s): Credit or concurrent enrollment in MATH 206.  PHYS 170L (General Physics I Lab) Prerequisite(s): Credit or concurrent enrollment in PHYS 170.				——I		
PHYS 272 (General Physics I Lab) Prerequisite(s): PHYS 170; PHYS 170L; MATH 206				<del></del>		
MATH 231 (Calculus III) Prerequisite(s): A grade of "C" or higher in MATH 206.						
CE 270 or EE 211 (Applied Mechanics I or Basic Circuit Analysis) MATH 232 (Calculus IV) Prerequisite(s): A grade of "C" or higher in	CE 270 or EE 211 (Applied Mechanics I or Basic Circuit Analysis) (see catalog for prerequisites)					
IV. ELECTIVES (5 - 6 Credits)	11001111 201		COURSE	CP.	GR	
Electives (ELCT): (** indicates stongly recommended cours	es)			J.	CIV	
ASTR 110, BIOC 241, BIOC 244, BIOL 171, BIOL 171L, BIOL 172	, BIOŁ 172Ł, BIOŁ 265, BIOL 265L, BIOL 275, BIOL					
275L, BOT 201, BOT 201L, CHEM 272, CHEM 272L, CHEM 273, GG 103, ICS 111**, ICS 141, ICS 211, ICS 212, ICS 241, MATH 1						
MICR 161, MICR 230, MICR 240, OCN 201, PHYS 151, PHYS 15		9				
160, ZOOL 141, ZOOL 141L, ZOOL 142, ZOOL 142L, ZOOL 200,	ZOOL 200L					

Please refer to current KCC Catalog for residency, curriculum, and other graduation requirements.
\*Select courses that also satisfy the Writing Intensive and/or Hawaiian, Asian or Pacific Issues requirements.

LS 04/09/2012

The issuance of an AS degree require that the student must earn a cumulative grade point ratio (GPR) of 2.0 or higher for all classes applicable toward the degree

Advising: Maida Kamber Center for Career, Transfer and Graduation (Ilima 104, 734-9500)

Walk-in hours: Monday - Thursday 8:30-4:30pm