



AQUACULTURE Specialty
Effective Fall 2009

STUDENT NAME:		ADVISOR NAME:	
REQUIREMENTS for GRADUATION: To earn a Bachelor of Science Degree in Agriculture with a specialization in AQUACULTURE Curriculum, a student must complete a minimum of 123 semester hours with a cumulative GPA of 2.0. It is the responsibility of the student to make certain that all requirements for graduation are met.			
COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SEM/YR COMPLETED
GENERAL EDUCATION REQUIREMENTS (see UH-Hilo General Education Requirements)			40 hours
ENG 100 ENG 100T ESL 100 ESL 100T	or or or or English Composition	3	
	Quantitative Reasoning (100 or 200 level Math, except 197, 199 or 299) <i>MATH 121 taken under the Supplemental Requirements also applicable here.</i>	3	
AG 230 ANTH 100 ENG 253, 254, 275 GEOG 102 HIST 151, 152 KInd 240	or or or or or or World Cultures: TWO Courses	TOTAL of 6 hours 3	
	Humanities: THREE 100 or 200 level courses in <u>different</u> disciplines. <i>COM course and ENG 225 taken under the Supplemental Requirements also applicable here.</i>	TOTAL of 9 hours 3	
		3	
		3	
	Social Sciences: THREE 100 or 200 level courses in <u>different</u> disciplines. <i>ECON 130 taken under the Supplemental Requirements also applicable here.</i>	TOTAL of 9 hours 3	
		3	
		3	
	Natural Sciences: THREE 100 or 200 level courses in <u>different</u> disciplines. Including 1 credit hour of laboratory. <i>Courses taken under the Agriscience and Supplemental Requirements also applicable here.</i>	TOTAL of 10 hours 3	
		3	
		4	
Requirements for Major			Including GE Courses, 123 hours
AGRISCIENCE REQUIREMENTS			44 hours
AG 291	Directed Work Experience Program	3	
AG 375 ANSC 445 BIOL 466	or or Introduction to Genetic Analysis Animal Breeding and Genetics (<i>Prerequisite: ANSC 141. Rec: MATH 121 or equivalent</i>) Genetics (<i>Prerequisite: BIOL 410</i>)	3	
AG 497	Senior Seminar	1	
AGBU 320 AGEC 330	or Agribusiness Management Farm Management	3	
AGEN 400	Aquaculture Engineering (<i>Prerequisite: AQUA 262</i>)	4	
ANSC 141*	Introduction to Animal Science	3	
ANSC 244*	Fundamentals of Animal Nutrition (<i>Prerequisite: ANSC 141, CHEM 124-125</i>)	3	
AQUA 262*	Introduction to Aquaculture (<i>Prerequisite: MARE 171 or college level biology class</i>)	3	

COURSE NUMBER	COURSE TITLE	CREDIT HOURS	SEM/YR COMPLETED
AQUA 352	Aquaculture of Fishes (<i>Prerequisite: AQUA 262 or aquatic ecology</i>)	3	
AQUA 352L	Aquaculture of Fishes Lab (<i>Prerequisite: previous or concurrent enrollment in AQUA 352</i>)	1	
AQUA 353	Invertebrate & Algae Culture (<i>Prerequisite: AQUA 262 or aquatic ecology</i>)	3	
AQUA 353L	Invertebrate & Algae Culture Lab (<i>Prerequisite: previous or concurrent enrollment in AQUA 353</i>)	1	
AQUA 425	Water Quality and Aquatic Productivity (<i>Prerequisite: CHEM 124</i>)	3	
AQUA 425L	Water Quality and Aquatic Productivity Lab (<i>Prerequisite: previous or concurrent enrollment in AQUA 425</i>)	1	
AQUA 466	Fisheries Science (<i>Prerequisite: background in fish biology and aquatic ecology</i>)	3	
HORT 262*	Principles of Horticulture	3	
HORT 263*	Hydroponics (<i>Prerequisite: HORT 262</i>)	3	
SUPPLEMENTAL REQUIREMENTS			46/48 hours
BIOL 281 MARE 265	or General Ecology (<i>Prerequisite: BIOL 175 or 176. Rec: high school algebra or equivalent</i>) Marine Ecology and Evolution (<i>Prerequisite: MARE/BIOL 171/171L, MARE 172 and MARE 201</i>)	3	
BIOL 280 MARE 250* MATH 121*	or Biostatistics or Statistical Applications in Marine Science (<i>Prerequisite: MARE/BIOL 171 or MARE 201 and CS 102</i>) or Introduction to Statistics and Probability (<i>Prerequisite: Recommendation in Math Placement Test</i>)	3	
CHEM 114-114L CHEM 141-141L	or Introductory Chemistry and Lab (<i>Prerequisite: Placement by exams</i>) or Survey of Organic Chemistry and Biochemistry and Lab	8/10	
CHEM 124*-124D-124L* CHEM 125-125D-125L or	General Chemistry I, II and Discussions and Labs (<i>Prerequisite: high school chemistry or CHEM 114 and high school algebra or MATH 104 and placement by exam</i>)		
CHEM 124*-124D-124L* CHEM 141-141L	General Chemistry I and Discussion and Lab (<i>Prerequisite: see above</i>) Survey of Organic Chemistry and Biochemistry and Lab		
COM 100* COM 200* COM 251*	or Human Communication in a Diverse Society or Fundamentals of Interpersonal Communication or Public Speaking	3	
ECON 130*	Introduction to Microeconomics	3	
ENG 225*	WI/Writing for Science and Technology (<i>Prerequisite: ENG 100/ESL 100</i>)	3	
MARE 171*	Marine Biology (<i>Prerequisite: Two high school or college science courses</i>)	3	
MARE 171L*	Marine Biology Lab (<i>Prerequisite: current or previous enrollment in BIOL/MARE 171</i>)	1	
MARE 172*	Marine Biology - Cellular Processes (<i>Prerequisite: high school Biology or BIOL 101 and high school chemistry or CHEM 114 recommended</i>)	3	
MARE 201*	Oceanography (<i>Prerequisite: Two high school or college science courses recommended</i>)	3	
MARE 201L*	Oceanography Lab (<i>Prerequisite: concurrent or previous enrollment in MARE 201</i>)	1	
MARE 371-371L MARE 372-372L MARE 484-481L	or Biology of Marine Invertebrates and Lab (<i>Prerequisite: MARE 265 or BIOL 176 or their equivalent</i>) or Biology of Marine Plants and Lab (<i>Prerequisite: MARE/BIOL 171 or BIOL 175</i>) or Biology of Fishes and Lab (<i>Prerequisite: MARE/BIOL 171 or BIOL 175 and MARE 265 or their equivalent</i>)	8	
PHYS 106-170L*	College Physics I & Lab (<i>Prerequisite: 3 years of high school math and placement exam</i>)	4	
ELECTIVES			8-12 hours
<i>For students interested in eventually pursuing a graduate degree, the following courses are suggested as electives: MATH 205-206, CHEM 241-242, BIOL 410, PHYS 107.</i>			

*Can be used for General Education Requirements, if courses are from lower division.

SUMMARY:	
Expected Graduation Date: _____	Requirements will have been met? YES NO
GPA: _____	Cumulative GPA in Major: _____
199 or 399 Rule: _____	CR/NC Rule: _____
Ten-Year Rule: _____	Resident in Final Term: _____