UNIVERSITY OF HAWAI'I HILO

# COLLEGE OF AGRICULTURE, FORESTRY & NATURAL RESOURCE MANAGEMENT

## AGROECOLOGY and ENVIRONMENTAL QUALITY Specialty

**Effective Fall 2010**

| **STUDENT NAME:** | **ADVISOR NAME:** |
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**REQUIREMENTS for GRADUATION:**

To earn a Bachelor of Science Degree in Agriculture with a specialization in AGROECOLOGY AND ENVIRONMENTAL QUALITY, 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 or<br>ENG 100T or<br>ESL 100 or<br>ESL 100T | English Composition | 3 | |
| | Quantitative Reasoning (100 or 200 level Math, except 197, 199V or 299V)<br>*MATH 121 taken under the Supplemental Requirements also applicable here.* | 3 | |
| AG 230 or<br>ANTH 100 or<br>ENG 253, 254, 275 or<br>ENG/WS 201, 202 or<br>GEOG 102 or<br>HIST 151, 152 or<br>KInd 240 or<br>POLS 251 | World Cultures: TWO Courses TOTAL of 6 hours<br>*AG 230 taken under the Agriscience Requirements also applicable here.* | 3 | |
| | | 3 | |
| | Humanities: THREE 100 or 200 level courses in <u>different</u> disciplines. TOTAL of 9 hours<br>*COM course and ENG 225 taken under the Supplemental Requirements also applicable here.* | 3 | |
| | | 3 | |
| | | 3 | |
| | Social Sciences: THREE 100 or 200 level courses in <u>different</u> disciplines. TOTAL of 9 horus<br>*AGEC 201 or ECON 130 taken under the Agriscience Requirements also applicable here.* | 3 | |
| | | 3 | |
| | | 3 | |
| | Natural Sciences: THREE 100 or 200 level courses in <u>different</u> disciplines. TOTAL of 10 hours<br>Including 1 credit hour of laboratory.<br>*Courses taken under the Supplemental Requirements also applicable here.* | 3 | |
| | | 3 | |
| | | 4 | |
| **Requirements for Major** | | | **Including GE Courses, 123 hours** |
| **AGRISCIENCE REQUIREMENTS** | | | **49 hours** |
| AG 215 or<br>NRES 320 | Agro-environmental Chemistry *(Prerequisite: college algebra)*<br>Environmental Issues in Asia-Pacific *(Recommended: CHEM 114/124 or equivalent)* | 3 | |
| AG 230* | Sustainable Agriculture | 3 | |
| AG 291 | Directed Work Experience Program | 3 | |
| AG 375 | Introduction to Genetic Analysis | 3 | |
| AG 496 | Senior Seminar | 1 | |
| AGBU 110 | Introduction to Microcomputing for Agriculture | 3 | |
| AGEC 201* or<br>ECON 130* | Agricultural Economics<br>Introduction to Microeconomics | 3 | |
| AGRN 310 or<br>AGRN 410 | Agronomic Crop Production in the Tropics *(Prerequisite: HORT 262)*<br>Soil-Plant-Herbivore Interrelations *(Prerequisite: ANSC 141, BIOL 175 or HORT 262)* | 3 | |

| COURSE NUMBER | COURSE TITLE | CREDIT HOURS | SEM/YR COMPLETED |
|---|---|---|---|
| ANSC 141* or<br>AQUA 262* | Introduction to Animal Science<br>Introduction to Aquaculture | 3 | |
| AQUA 425 | Water Quality *(Prerequisite: CHEM 114 or124)* | 3 | |
| ENTO 304 | General Entomology *(Prerequisite: BIOL 175 or 176)* | 3 | |
| ENTO 374 | Insect Pest Control *(Prerequisite: ENTO 304)* | 3 | |
| FOR 202 or<br>SOIL 350 | Forestry and Natural Resources<br>Soil Fertility & Nutrient Cycling *(Prerequisite: CHEM 114 or 124. Rec: SOIL 304)* | 3 | |
| HORT 262* | Principles of Horticulture | 3 | |
| HORT 481 | Weed Science *(Prerequisite: HORT 262 or BIOL 175 and 1 year of chemistry)* | 3 | |
| PPTH 301 | Tropical Plant Pathology *(Prerequisite: BIOL 175)* | 3 | |
| SOIL 304 | Tropical Soils *(Prerequisite: CHEM 114 or124)* | 3 | |
| **SUPPLEMENTAL REQUIREMENTS** | | | **29 to 31 hours** |
| BIOL 175-175L* | Introductory Biology I and Lab | 4 | |
| BIOL 281* | General Ecology *(Prerequisite: BIOL 175 or 176. Rec: high school algebra or equivalent)* | 3 | |
| CHEM 114-114L<br>CHEM 141 or<br><br>CHEM 124*-124L*<br>CHEM 125*-125L* or<br><br>CHEM 124*-124L*<br>CHEM 141 | Introductory Chemistry and Lab *(Prerequisite: Placement by exams)*<br>Survey of Organic Chemistry and Biochemistry<br><br>General Chemistry I, II and Labs *(Prerequisite: high school chemistry or CHEM 114 and high school algebra or MATH 104 and placement by exam)*<br><br>General Chemistry I and Lab *(Prerequisite: see above)*<br>Survey of Organic Chemistry and Biochemistry | 7/8 | |
| COM 100* or<br>COM 200* or<br>COM 251* | Human Communication in a Diverse Society<br>Interpersonal Communication<br>Public Speaking | 3 | |
| ECON 380 | Natural Resource and Environmental Economics *(Prerequisite: ECON 130)* | 3 | |
| ENG 225* | WI/Writing for Science and Technology *(Prerequisite: C in ENG 100/100T or ESL 100/100T)* | 3 | |
| MATH 121* | Introduction to Statistics and Probability *(Prerequisite: Recommendation in Math Placement Test)* | 3 | |
| PHYS 106-170L* or<br>PHYS 115* | College Physics I and Lab *(Prerequisite: 3 years of high school math and placement exam)*<br>Physics for the Liberal Arts | 4/3 | |
| **ELECTIVES**<br>*For students interested in eventually pursuing a graduate degree, the following courses are suggested as electives: CHEM 141/CHEM 241-242, BIOL 410, MATH 205-206.* | | | **26 to 31 hours** |
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*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: _____