

# Tropical Agriculture and the Environment (TAE) Plant Production & Management

\*UH Manoa requirements are those in effect for the 2017-2018 academic year. Students are advised to consult future UH Manoa catalogs to determine if changes have been made to any requirements.

## UHM General Education Core Requirements (three credits each, unless noted otherwise)

### A. Foundations

- (1) FW =Written Communication (ENG 100, ENG 100A, ENG 190, ESL 100 or AMST 111)
- (2) FS = Symbolic Reasoning (MATH 100, MATH 140 or NREM 203);
- (3) FG = Global & Multicultural Perspective (A/ B/ C), first course  
FG =Global & Multicultural Perspective (A/ B/ C), second course

### B. Diversification

- (1) DA/DH/DL =Arts, Humanities, & Literature, first course
- (2) DA/DH/DL = Arts, Humanities, & Literature, second course
- (3) DS = Social Sciences, first course
- (4) DS = Social Sciences, second course
- (5) DB = BIOL 171
- (6) DY = BIOL 171L (1cr)
- (7) DB = BIOL 172
- (8) DY = BIOL 172L (1cr)
- (9) DP = CHEM 161 (3cr)
- (10) DY = CHEM 161L (1cr)
- (11) DP = CHEM 162 (3cr)
- (12) DY = CHEM 162L (1cr)

### UHM Graduation Requirements Focus

- (1) H = Hawaiian, Asian & Pacific
- (2) E = Contemporary Ethical Issues (300+) will be satisfied by taking any one of the following: TPSS 416 Introduction to Social, Ethical, and Political Issues Associated with Biotechnology; PEPS 310 Environment and Agriculture; PEPS 350 Invasive Pest Species; PEPS 451 Environmental Law; MBBE/BIOL 304 Biotechnology: Science and Ethical Issues; CMB 351/BIOL 340 Genetics, Evolution and Society
- (3) Oral Communication (300+)
- (4) Writing Intensive (W)
  - a. First 100 or 200-level course
  - b. Second 100 or 200-level course
  - c. TPSS 200, Tropical Crop Science, third course
  - d. Fourth course, PEPS 421
  - e. Fifth course, TPSS 492L, Internship

### D. Hawaiian/Second Language - *Alternative*

Any four (4)-course combination of Languages, TPSS, PEPS or other approved related course not used to satisfy requirements in the TAE major.

- (1) First course
- (2) Second course
- (3) Third course
- (4) Fourth course

## College of Tropical Agriculture and Human Resources Requirements

### G. CTAHR Required Set of Interrelated Courses

- (1) FAMR 380\* DS & 380L Research Methodology (4 cr) **OR** NREM 310 Statistics in Agriculture (3 cr)
- (2) TPSS 492 Internship (TPSS 492 (1 cr) + TPSS 492L (3 cr) = 4 credits)

## Tropical Agriculture and the Environment (TAE) Requirements (21 Credits)

### H. TAE Core

- (1) TPSS 200 Agriculture, Environment, and Society
- (2) BIOL 265 Ecology and Evolutionary Biology or PEPS 210 Introduction to Environmental Science
- (3) TPSS 304 Fundamentals of Soil Science (4)
- (4) TPSS 470 Plant Physiology
- (5) TPSS 470L Plant Physiology Laboratory
- (6) PEPS 421W Foundations of Pest Management (4)
- (7) TPSS/PEPS 499 Directed Research (3)

## Certificate in Agribusiness Management

- (1) ECON 130 Principles of Economics
- (2) TPSS 322 Farm & Food Marketing or BUS 312
- (3) TPSS 341 Managerial Accounting
- (4) TPSS 351 Enterprise Management
- (5) TPSS 429 Spreadsheet Modeling for Business & Economic Analysis

## Graduation Requirements

### E. Grade Point Average (GPA)

- (1) 2.0 cumulative or higher
- (2) Good academic standing

### F. Credit Minimums

- (1) 120 Credits - Total Applicable
- (2) 30 Credits in residence at UHM Graduation
- (3) 45 Upper Division (300\*) credits

# Plant Production & Management

## Group A: Fundamental courses (Take all 6 courses)

- (1) TPSS 364 Horticulture Practices
- (2) PEPS 363 General Entomology
- (3) PEPS 363 General Entomology Lab
- (4) TPSS 420 Plant Propagation
- (5) PEPS 405 Plant Pathogens & Disease
- (6) TPSS 481 Weed Science

## Group B: Production Electives Take 6 from the two groups below, including at least 9 credits from Production courses

### Production Courses

- (1) TPSS 220 Organic Crop Production (2)
- (2) TPSS 405 Turf Management
- (3) TPSS 300 Tropical Crop Production Systems (4)
- (4) TPSS 430 Nursery Management
- (5) TPSS 401 Vegetable Crop Production
- (6) TPSS 440 Tissue Culture & Transformation
- (7) TPSS 402 Flower and Foliage Crop Production
- (8) HWST 352 Advanced Taro Cultivation
- (9) TPSS 403 Tropical Fruit Production

### Supporting Courses

- (1) TPSS 311 Current topics in Plant Sciences (1)
- (2) TPSS 336 Renewable Energy and Society
- (3) TPSS 350 Tropical Landscape Practices
- (4) TPSS 352 Landscape Architecture History, Theory & Practice
- (5) TPSS 353 Landscape Graphics Studio
- (6) TPSS 354 Tropical Landscape Planting Design Studio
- (7) TPSS 369 Ornamental Plant materials
- (8) TPSS 371 Genetics: Theory to Application
- (9) TPSS 418 Turf Pest Management (4)
- (10) TPSS 421 Tropical Seed Science (2)
- (11) TPSS 429 Spreadsheet Modeling for Business and Economic Analysis\*
- (12) TPSS 435 Environmental Soil Chemistry
- (13) TPSS 450 Nutrient Mgt. Soils & Plants (4)
- (14) TPSS 453 Plant Breeding & Genetics
- (15) TPSS 460 Plant Soil Atmosphere Physics
- (16) TPSS 463 Irrigation and Water Management
- (17) TPSS 473 Postharvest Physiology
- (18) TPSS 475 Plant Nutrient Diagnosis
- (19) TPSS 409 Cultural Geography
- (20) TPSS 491 Experimental Topics (variable credit)
- (21) TPSS 416 Issues Concerning Biotechnology
- (22) TPSS 499 Directed Study (variable credit)