

Tropical Agriculture and the Environment (TAE) Invasive Species 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)

College of Tropical Agriculture and Human Resources Requirements

A. Foundations

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

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 492W Internship (TPSS 492 (1 cr) + TPSS 492L (3 cr) = 4 credits)

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)

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)

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 Foundations of Pest Mgmt
 - e. Fifth course, TPSS 492L, Internship

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

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

Invasive Species Management

Group A Fundamental Courses (Take all 6 courses)

- (1) PEPS 350 Invasive Pest Species
- (2) PEPS 363 General Entomology & PEPS 363L (1) General Entomology Lab
- (3) PEPS 405 Plant Pathogens & Disease (4)
- (4) PEPS 430 Plant Disease Management
- (5) PEPS 422 Biocontrol of Invasive Species
- (6) TPSS 481 Weed Science

Group B Electives (12 credit minimum)

- (1) PEPS 310 Environment and Agriculture
- (2) PEPS 371 Genetics: Theory to Application
- (3) PEPS 418 Turf Pest Management (4)
- (4) PEPS 451 Environmental Law
- (5) PEPS 410 Sustainable Plant and Soil Health Management (2)
- (6) PEPS 463 Urban Pest Management
- (7) PEPS 486 Insect Microbe Interactions
- (8) GEOG 388 Introduction to GIS