HORTICULTURE (HORT)

HORT 514: Modern Techniques and Concepts in Plant Ecophysiology
2 Credits
An intensive introduction to concepts of plant ecophysiology and modern
techniques used in this field.
Prerequisite: BIOL 220W
Cross-listed with: PLBIO 514

HORT 517: Ecology of Plant Roots
2 Credits
Form and function of roots from an ecological perspective using
elements from both wild and crop plants.

HORT 573: Interpreting Data from Experiments with Quantitative
Treatments
3 Credits/Maximum of 999
Interpreting Data from Experiments with Quantitative Treatments (HORT 573) is an applied regression course that employs statistical
analysis in the context of agricultural/horticultural experimentation. Analytical approaches include: descriptive statistics, data distribution(s),
data graphing/representation, correlation, least squares linear regression, general linear models, mixed linear models, generalized linear mixed
models, non-linear regression models, and discrete response regression models. Graphical techniques are demonstrated to identify unusual
observations and recognize relationships. Discussions will focus on
identifying the best models with linear, polynomial, and multiple linear
regression techniques for data obtained from both observational and
designed experiments. Fixed and/or mixed model approaches will be
used for experiments with designs and treatment structures common
to agricultural and horticultural experiments, such as blocked designs,
and factorial and augmented factorial treatment structures. Analysis
of covariance will be discussed in detail to include situations with
homogeneous and nonhomogeneous slopes and factorial experiments
involving repeated measures and/or additional indicator variables. Analysis of covariance will also be presented as an alternative to
blocking. Practical applications of nonlinear and logistic regression
methods will also be discussed.
Prerequisite: AGRO 808 or ENT 535 or STAT 500

HORT 590: Colloquium
1-3 Credits/Maximum of 3
Continuing seminars which consist of a series of individual lectures by
faculty, students, or outside speakers.

HORT 596: Individual Studies
1-9 Credits/Maximum of 9
Creative projects including non-thesis research, supervised on an
individual basis and which fall outside the scope of formal courses.

HORT 596A: **SPECIAL TOPICS**
1-9 Credits/Maximum of 9

HORT 597: Special Topics
1-9 Credits/Maximum of 9
Formal courses given on a topical or special interest subject which may
be offered infrequently.

HORT 600: Thesis Research
1-15 Credits/Maximum of 999
No description.

HORT 601: Ph.D. Dissertation Full-Time
0 Credits/Maximum of 999
No description.

HORT 602: Supervised Experience in College Teaching
1-3 Credits/Maximum of 6
Provides an opportunity for horticulture graduate students to gain
experience in teaching under the supervision of a faculty member.

HORT 603: Foreign Academic Experience
1-12 Credits/Maximum of 12
Foreign study and/or research constituting progress toward the degree at
a foreign university.

HORT 610: Thesis Research Off Campus
1-15 Credits/Maximum of 999
No description.

HORT 611: Ph.D. Dissertation Part-Time
0 Credits/Maximum of 999
No description.