Course Title & Number: HRT 224: Plant Propagation & Hybridization

Competency Area: **SCIENTIFIC REASONING** (Goal: Students will become familiar with science as a method of inquiry. Students will develop a habit of mind that uses quantitative skills to solve problems and make informed decisions.)

Faculty submitting the Learning Outcomes: Christopher Tuccio ***Date***: 1/28/13

[Instructions: *Please match the Learning Outcomes in the left hand column to those of the course you are submitting for Gen Ed approval. List the corresponding course outcomes in the right hand column to indicate a match.*]

BOR TAP's Learning Outcomes	Corresponding Outcomes for Course Named Above
1. Explain the methods of scientific inquiry that lead to the acquisition of knowledge. Such methods include observations, testable hypotheses, logical inferences, experimental design, data acquisition, interpretation, and reproducible outcomes.	Resolve problems necessary for successful plant propagation through the completion of lab assignments.
2. Apply scientific methods to investigate real-world phenomena, and routine and novel problems. This includes data acquisition and evaluation, and prediction.	Identify and utilize the scientific principles and hands on techniques involved with both sexual and asexual plant propagation. Apply the practical skills necessary to successfully propagate plants by seeds, division, layering, cuttings, grafting and tissue culture/micropropagation.
3. Represent scientific data symbolically, graphically, numerically, and verbally.	Develop, interpret, and describe the results of laboratory information in scientific manner utilizing the scientific terminology of plant propagation.
4. Interpret scientific information and draw logical references from representations such as formulas, equations, graphs, tables, and schematics.	Develop, interpret, and describe the results of laboratory information in scientific manner utilizing the scientific terminology of plant propagation.

5. Evaluate the results obtained from scientific methods for accuracy and/or reasonableness.	Resolve problems necessary for successful plant propagation through the completion of lab assignments.
	Additional Outcomes • Describe the history of plant propagation