

Course Title & Number: HRT 102: Woody Plants

Competency Area: **SCIENTIFIC KNOWLEDGE / UNDERSTANDING** (Goal: Students will gain a broad base of scientific knowledge and methodologies in the natural sciences. This will enable them to develop scientific literacy, the knowledge and understanding of scientific concepts and processes essential for personal decision making and understanding scientific issues.)

Faculty submitting the Learning Outcomes: Christopher Tuccio

Date: 12/6/12

[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. Communicate using appropriate scientific terminology.	Identify approximately 150 trees, shrubs, and vines by botanical and common name and describe their foliage, form, flower, height, and ornamental characteristics.
2. Use representations and models to communicate scientific knowledge and solve scientific problems.	Present information on a specific tree through sketches, bark rubbing, circumference, and photography and utilize these investigations to solve issues related to that specific genus and species.
3. Plan and implement data collection strategies appropriate to a particular scientific question.	Collect data on plant's cultural needs, such as sunlight requirements, zonal hardiness, soil conditions, and insect problems through secondary source research and the first-hand evaluation of plant species.
4. Articulate the reasons that scientific explanations and theories are refined or replaced.	Discuss the genus/specific epithet nomenclature utilized to identify and catalog woody plant species and describe how this names or classifications change, or have changed, through time.

<p>5. Evaluate the quality of scientific information on the basis of its source and the methods used to generate it.</p>	<p>Collect and evaluate data on plant's cultural needs, such as sunlight requirements, zonal hardiness, soil conditions, and insect problems through secondary source research and the first-hand evaluation of plant species.</p>
	<p><i>Additional Outcomes</i></p>