COMMON COURSE OUTLINE: Course discipline/number/title: HORT 1323: Introduction to Horticulture

A. CATALOG DESCRIPTION
1. Credits: 3
2. Hours/Week: 2 hours lecture per week, 2 hours lab per week
3. Prerequisites (Course discipline/number): None
4. MnTC Goals (If any): NA

This course explores the fundamentals of plant systems as it relates to horticulture. Students are immersed in inquiry-based exercises filled with activities, projects, and problems to teach them plant concepts through laboratory and practical experiences. Current trends and career opportunities in horticulture will explored.

B. DATE LAST REVISED (Month, year): May, 2015

C. OUTLINE OF MAJOR CONTENT AREAS:
1. What is Horticulture/Agriculture?
2. Classifying and Naming Plants
3. Plant Anatomy, Physiology & Genetics
4. Plant Growth Environment
   a) Soil
   b) Water
   c) Plant Nutrition
   d) Light & Temperature
5. Propagation of Plants
6. Holistic Plant Healthcare
   a) Integrated Pest Management
   b) Organic practices
   c) Sustainable practices
7. Growing Plants Indoors
   a) Controlled environment – greenhouses
   b) Interior plantscaping
8. Growing Plants Outdoors
   a) Ornamental plants
   b) Fruits and Vegetables
9. Design Principles & Practices
   a) Landscape
   b) Floral

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Understand principal characteristics of green plants, their structure, and common horticultural terminology.
2. Understand the growth and development of horticultural crop plants, current management practices, and factors that influence yield, aesthetics, and end-use quality.
3. Practice safety while engaged in horticultural work.
4. Make decisions that incorporate the importance of sustainability
5. Transfer social and natural science theories into practical applications
6. Identify the value of plant production and its impact on the individual, the local, and the global economy.
7. Demonstrate ability to value self and work ethically with others in a diverse population
8. Appreciate the breadth and depth of professional opportunities in Horticulture.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Exams
2. Quizzes
3. Lab assignments
F. METHODS FOR EVALUATION OF STUDENT LEARNING: Continued...
4. Industry Interviews
5. Class participation

G. RCTC CORE OUTCOME(S) ADDRESSED:
☐ Communication  ☑ Civic Responsibility
☐ Critical Thinking ☑ Personal/Professional Accountability
☐ Global Awareness/Diversity ☐ Aesthetic Response

H. SPECIAL INFORMATION (if any): None