



Announcing the  
**Master of Agriculture Degree in Horticulture**  
with special emphasis on...

## Arboreta, Botanical Gardens & Professional Grounds Maintenance

# T E X A S A & M U N I V E R S I T Y

The faculty of the TAMU Horticultural Gardens are now accepting applications for a 1.5 year, non-thesis, Master of Agriculture degree in horticulture. Course work, and a required professional internship, focus on arboreta, botanical gardens and professional grounds maintenance. The degree is offered in cooperation with the TAMU Horticultural Gardens and Field Laboratory in College Station. This student managed and maintained facility offers a broad range of teaching, research and training programs for horticultural professionals, as well as home gardeners. The gardens offer a unique setting for practical horticultural experiences, as well as providing opportunities to develop leadership and management skills.

### **About the Gardens:**

The TAMU Horticultural Gardens and Field Laboratory is a student managed and maintained facility within the TAMU Department of Horticultural Sciences in College Station. We conduct a broad range of teaching, research and training programs for horticultural professionals, as well as home gardeners.

### **Teaching...**

The TAMU Horticultural Gardens and Field Laboratory provides students with an opportunity to study the adaptability of a wide range of plant materials to Texas growing conditions. With over 500 specimens, located in habitats ranging from bog and wetlands to desert southwest, students receive practical, hands on experiences that make learning more meaningful.

The Gardens also provide useful experiences in landscape construction and maintenance. Students learn about plant care and handling, decks, hardscapes, irrigation and much more.

### **Research...**

Research is another important component of our mission at the TAMU Horticultural Gardens and Field Laboratory. We currently maintain a 20,000 square foot container nursery and a 6,000 square foot greenhouse. These facilities are used to study new plants, production systems, and developing technologies. The primary focus of our work has been on environmental issues challenging professional horticulturists and home gardeners alike. Water and water quality, integrated pest management and low maintenance landscapes are just a few of the research projects underway. The data and information collected from

this work will help ensure the future of a strong horticultural industry, as well as a healthy environment.

### **Training...**

The TAMU Horticultural Gardens and Field Laboratory is an excellent resource for professional training. We work closely with the statewide Master Gardener program and the Texas Nursery and Landscape Association's Master Certification program. In addition, we host a joint Field Day which draws more than 500 grounds maintenance professionals from throughout the state. With special garden events, lecture series, gardening schools and short courses, our facility provides in-depth educational training for a wide range of horticultural professionals and home gardeners.

**Goals & Objectives:**

The goal of this degree program is to provide the advanced skills, knowledge and practical experiences required for career opportunities in botanical gardens, arboreta and professional grounds maintenance. Study areas include:

Plant Care & Maintenance  
Turf Care & Maintenance  
Bed Preparation & Construction  
Irrigation Installation & Maintenance  
Hardscape Installation  
Landscape Installation  
Tree and Shrub Installation  
Small Equipment Operation  
Small Equipment Maintenance  
Building & Construction  
Greenhouse/Nursery Management  
Gardens and Grounds Supervision  
Labor & Materials Scheduling  
Costing and Bidding  
Scheduling Seasonal Color  
New Construction  
Planning & Supervision  
Landscape Design  
Publications, Newsletters, etc.  
Working with Mass Media  
Computer & Internet Technology  
Special Events Planning  
Community Outreach  
Plant Database Management

*and much more...*

**Professional Internships:**

A professional internship is required as a part of the required curriculum (summer). This degree component is designed to provide candidates with practical experiences outside of the university setting.

Internships are an extremely important and effective tool in preparing for career opportunities in arboreta, botanical garden and professional grounds maintenance and management. In addition, internships also help students better understand the potential application of classroom information.

**For More Information:**

You can find much more information on the TAMU Department of Horticultural Sciences and the TAMU Horticultural Gardens at our web site:

<http://hortgardens.tamu.edu>

*a part of the aggie horticulture network*

**Requirements:**

Minimum qualifications for this program include a bachelors degree in horticulture or a related field, and a 3.0 GPA in the last 60 hours of study. All candidates must also meet GRE requirements for admission to the TAMU Department of Horticultural Sciences. *Students will only be admitted in the fall semester.*

All candidates admitted to the program must complete the curriculum shown on page 3, including an approved professional internship. In addition, a professional paper detailing experiences and observations must be submitted to meet the requirements for the Master of Agriculture degree in Horticulture.

**Meet the Faculty:**

This Master of Agriculture degree is offered by the following faculty members within the Department of Horticultural Sciences at Texas A&M University.

**Don C. Wilkerson:**

Professor and Extension Horticulturist, Dept. of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133

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Dr. Wilkerson is a member of the Graduate Faculty at Texas A&M University, and serves as Chair, of the Advising Committees for Master of Agriculture degree candidates in this area.

**Dr. Michael A. Arnold:**

Associate Professor, Dept. of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2133

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Dr. Arnold is a Member of the Graduate Faculty of Texas A&M University.

**Jayne M. Zajicek:**

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Dr. Zajicek is a Member of the Graduate Faculty of Texas A&M University.



## Required Curriculum:

This curriculum offers the flexibility to select from a number of approved courses to create emphasis areas within the degree plan.

### Horticulture & Background Courses (9 credits)

#### Landscape Construction/Maintenance:

- HORT 308 - Landscape Plant Materials
- HORT 425 - Landscape Maintenance and Construction
- HORT 428 - Greenhouse Management
- HORT 429 - Greenhouse Crop Production
- HORT 431 - Nursery Production & Mgmt.
- HORT 432 - Horticulture Landscape Design

#### Education:

- HORT 335 - Sociohorticulture
- HORT 435 - Urban Horticulture
- HORT 489 - Classroom in the Garden

#### Botany/Taxonomy:

- BOTN 301 - Taxonomy of Flowering Plants

#### Landscape Architecture:

- LAND 340 - Development of Landscape Architecture in North America

#### Recreation, Parks and Tourism:

- RPTS 301 - Leisure and Outdoor Recreation
- RPTS 304 - Administration of Recreation Resource Agencies
- RPTS 307 - Methods of Environmental Interpretation
- RPTS 311 - Recreation and Tourism Programs
- RPTS 340 - Recreation, Parks and Diverse Populations

### Plant Science Courses (6 credits)

- HORT 604 - Applied Physiology of Horticultural Crops
- HORT 601 - Nutrition of Horticultural Crops
- HORT 616 - Asexual Plant Reproduction
- FLOR 609 - Taxonomy of Ornamental Plants
- BOTN 620 - Field Systematic Botany

### Directed Studies (13 credits)

- HORT 685 - Landscape Maintenance Practicum (4 cr)
- HORT 685 - Landscape Management Practicum (2 cr)
- HORT 684 - Internship (3 cr)
- STAT 651/EPsy 640 - Statistics (3 cr)
- HORT 681 - Seminar (1 cr)

### Special Emphasis (9 credits)

#### Leadership and Management of Non-Profits:

- EHRD 606 - Management of Educational Human Resource Development Programs and Departments
- EHRD 620 - Human Relations in Education and Industry
- EHRD 679 - Procurement and Management of Contracts and Grants
- BUSH 601 - Leadership and Public Administration
- AGED 689 - Leadership and Volunteerism
- HORT 605 - Internet Applications for Horticulture
- RPTS 601 - Interrelationships of Recreation and Leisure Concepts
- RPTS 602 - Social Science Foundations of Recreation and Resource Development
- RPTS 606 - Overview of Tourism

#### Business/Management:

- MGMT 655 - Survey of Management
- MKTG 621 - Survey of Marketing
- FINC 635 - Financial Management for Non-Business
- ACCT 640 - Accounting Concepts and Procedures I

#### Education Courses:

- EHRD 630 - Adult Learning
- EHRD 636 - Working with Adult Groups
- AGED 607 - Youth Leadership Programs
- EDCI 642 - Multicultural Education: Theory, Research & Practice
- EDCI 644 - Curriculum Development
- EDAD 638 - Developing School-Community Partnerships

#### Landscape Architecture:

- LAND 660 - Preservation Planning for Historic Landscapes
- LAND 663 - Landscape, Order and Human Meaning

**Total Credits = 37 hrs.**

#### *Note:*

This curriculum does not apply to all Master of Agriculture degrees in Horticulture, only for students that specialize in the Aboretia, Botanical Gardens and Professional Grounds Maintenance program.



## Sample Degree Plan:

The curriculum for this Master of Agriculture program offers flexibility in scheduling from the approved courses on page 3. However, here is an example of a typical degree plan.

### YEAR 1

#### Fall Semester:

- 3 hr. 300/400 Undergraduate Leveling Course
- 3 hr. 300/400 Undergraduate Leveling Course
- 3 hr. 300/400 Undergraduate Leveling Course
- 2 hr. HORT 685 Landscape Maintenance Practicum
- 11 hrs.

#### Spring Semester:

- 3 hr. STAT 651 Statistics
- 3 hr. 600 Special Emphasis Course
- 3 hr. 600 Plant Science Course
- 2 hr. HORT 685 Landscape Maintenance Practicum
- 11 hrs.

#### Summer Semester:

- 3 hr. HORT 684 Professional Internship

### YEAR 2

#### Fall Semester:

- 3 hr. 600 Special Emphasis Course
- 3 hr. 600 Special Emphasis Course
- 3 hr. 600 Plant Science Course
- 1 hr. HORT 681 Seminar
- 2 hr. HORT 685 Landscape Management Practicum
- 12 hrs.

37 hrs. TOTAL

## FOR MORE INFORMATION

*For more information on the  
Aboretum, Botanical Gardens and  
Professional Grounds Maintenance program contact:*

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*For more information on  
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Graduate application forms are available on-line at:  
[aggie-horticulture.tamu.edu](http://aggie-horticulture.tamu.edu)