Department of Horticultural Sciences

Undergraduate Student Handbook

2012-2013



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Introduction

Horticulture is a continually growing profession full of challenging, rewarding, and enjoyable careers. Horticulture encompasses the art, science, and technology of production, utilization, and distribution of fruits, vegetables, and nursery/floral crops throughout all facets of our society. The undergraduate program focuses on traditional areas of production, marketing, and processing of horticultural crops. In addition, horticultural programs in urban areas have added social sciences, creativity and design. Students are provided with technical and scientific skills as well as communication, leadership, and interpersonal capabilities necessary to function effectively as horticultural professionals.

The purpose of this handbook is to provide information about the undergraduate program in horticulture so that you can get the greatest benefit during your studies at Texas A&M University. There are many programs and agencies available to assist you, offer opportunities, and help you solve problems during your stay at Texas A&M University. We hope this manual will help you to better understand our program, and encourage you to use the many services available.

Each year a revised edition of the Texas A&M University Undergraduate Catalog is available at (http://catalog.tamu.edu/). This Undergraduate Handbook for the Department of Horticultural Sciences does not replace the Undergraduate Catalog and is intended to supplement the catalog with information specific to the Department of Horticultural Sciences. Each student should be familiar with the Undergraduate Catalog (http://catalog.tamu.edu/) at Texas A&M University and has the responsibility to be fully acquainted with and to comply with the Texas A&M University Student Rules (http://student-rules.tamu.edu/). Read the materials carefully and do not hesitate to seek help if you have questions.

We are happy that you are here! We hope that your experiences in the Department of Horticultural Sciences, both personally and professionally, will meet all of your expectations, and we wish you the best for a great educational experience!

People Who Can Help and Where to Find Them

Undergraduate Advising Office

Texas A&M University
Department of Horticultural Sciences
204 Horticulture/Forest Science Building
College Station, TX 77843-2133
Phone (979) 862-3116 Fax (979) 845-0627
http://hortsciences.tamu.edu/

This office is your first stop if you are enrolling in the Department for the first time. We will help plan your first class schedule, evaluate transfer credits for use within the department, and work up a preliminary degree plan.

Katie Marek Senior Academic Advisor HFSB 204B / 979.862.3116 ktmarek@tamu.edu Carol Nesbitt
Academic Advisor
HFSB 204C / 979.845.5343
clnesbitt@ag.tamu.edu

Additional Departmental Contacts

Dr. Dan Lineberger Department Head HFSB 202 / 979.845.5278 dan-lineberger@tamu.edu

Marissa Faris
Experiential Education Program
Coordinator
979.845.6068
mfaris@tamu.edu

Dr. Leo Lombardini Professor & Internship Coordinator 979.458.8079 I-lombardini@tamu.edu

Academic Dean's Office

Texas A&M University
College of Agriculture and Life Sciences Dean's Office
515 Agriculture and Life Sciences
Building (AGLS)
College Station, TX 77843
Phone (979) 845-3712
http://aglifesciences.tamu.edu/

Dr. Kim Dooley Associate Dean for Academic Operations k-dooley@tamu.edu

Dr. Danielle Harris
Assistant Dean for Student Success
danielleh@tamu.edu

Dr. Chris Skaggs Associate Dean for Student Development <u>cskaggs@tamu.edu</u>

Faculty

One of the greatest assets in the Department of Horticultural Sciences is our devoted, caring and knowledgeable Faculty. As students enter the Department, they are encouraged to interact with our Faculty who will guide them throughout their academic career. They may advise students in their areas of expertise and are trained to be effective referral sources to other Texas A&M University services for specific problems or concerns. Faculty members can be a nonjudgmental ear for students to talk with about topics including: career choices, graduate school, internships, finding a job, academic burnout, course selection advice, joining social activities, letters of recommendation, and much more.

The following information can aid you in finding faculty members working in areas specific to your interests. Current contact information is also available at: http://hortsciences.tamu.edu/faculty/index.html

FACULTY MEMBERS AND RESOURCES FOR EMPHASIS AREAS

	RM:	(979)
Dr. Michael Arnold - Landscape Horticulture	207	845-1499
Dr. David Byrne - Fruit and Nut Production	428	862-3072
Dr. Luis Cisneros - Food Sciences	511	845-3244
Dr. Gregory Cobb - Plant Physiology	525	845-5615
Dr. Kevin Crosby – Plant Breeding	412	845-0664
Dr. Fred Davies - Nursery Production	416	845-4524
Dr. Tim Davis – Ornamental Production	519	458-2048
Dr. Charles Hall – Ornamental Production	222	458-3277
Mr. James Johnson - Retail Floristry	211	845-3841
Mr. Matt Kent – Ornamental Production	407	845-4528
Dr. Patricia Klein – Plant Genomics (Borlaug Cen	iter)	862-6308
Dr. Hisashi Koiwa – Plant Physiology	522	845-5282
Dr. Dan Lineberger – Technology	507	845-5278
Dr. Leo Lombardini - Fruit & Nut Production	426	458-8079
Dr. George Ray McEachern – Grapes &Wine	225	845-8559
Mr. Bill McKinley - Floral Design/Event Plan.	210	862-2768
Dr. Creighton Miller – Plant Breeding	516	845-3828
Dr. Bhimu Patil – Plant Breeding (Centeq Bldg.)	120	862-4521
Dr. Betsy Pierson -Plant-Microbe Interaction	427	862-1307
Dr. David Reed - Ornamental Production	408	845-0139
Dr. Terri Starman - Ornamental Production	424	458-3932
Dr. Astrid Volder – Landscape Ecology	405	845-9277
Dr. Jayne Zajicek - Urban Horticulture	422	845-4482

WORKING WITH FACULTY

Our Faculty and the Undergraduate Advising Office are dedicated to serve you and help you with your educational goals. In most cases, a scheduled meeting is the preferred method to meet with the Horticulture Faculty as well as other Professors for your courses. Once you have an appointment, please follow these guidelines to make the most of your meeting.

- Give thoughtful consideration to your personal, educational, and career goals.
- Become familiar with your own academic program including all applicable requirements and policies.
- Accept responsibility for your choices and decisions.
- Ask questions if you do not understand.
- Be on time to all scheduled appointments, and try to be organized so you can make the best use of everyone's time
- Listen to your advisor and faculty rather than well-meaning friends and acquaintances when it comes to your academic progress.
- Keep your address and telephone numbers updated with your advisor and the Records Section of the Registrars Office (845-1031). You may update your own information on HOWDY (https://howdy.tamu.edu).

Degree Plan

The degree plan is the framework of courses that a student is required to complete for their degree in the Department of Horticultural Sciences. Each degree plan is unique to the student's individual career goals and is developed by the student, in conjunction with the Advising Worksheets, staff advisors and the Faculty. Advising Worksheets for each "Emphasis Area" are presented on the following pages. The following sections include components of the degree plan that are common for all horticultural sciences students.

UNIVERSITY CORE CURRICULUM

The core curriculum requirements are set by the Faculty Senate and are required of all students attending Texas A&M University. To be sure that your program is in accordance with the core curriculum, check the Undergraduate Catalog (http://catalog.tamu.edu/) for the core curriculum requirements in the year that you entered the University, or a more recent year. Ask your advisor what catalog might be best for your circumstances.

The University Core Curriculum also requires that each student earn two years of high school foreign language credit before attending TAMU, or take two semesters of foreign language at the university level. Students seeking the BA degree have an additional language requirement and should ask an advisor for details.

HORTICULTURAL SCIENCE & SUPPORTING FIELD REQUIREMENTS

The courses listed under these categories on the degree plans are required of all horticulture students seeking a BS or BA degree. Courses transferred from other universities must be approved by the Department Head of the Department of Horticultural Sciences and in some cases, by the instructor of the comparable course taught at TAMU.

HORTICULTURE SPECIALIZATION REQUIREMENTS

Students will be required to complete certain Horticulture electives based in the "Emphasis Area" he/she selects. Additional HORT electives will be chosen from approved electives on the Advising Worksheets.

STUDY EMPHASIS ELECTIVES

The study emphasis allows you to choose a block of technical electives, both inside and outside the Department of Horticultural Sciences, which will best support your career goals. Once a student selects an "Emphasis Area", electives will be chosen from approved electives on the Advising Worksheets. Horticulture courses used in the Study Emphasis area may not exceed 15 hours of the total hours of these electives. A student may petition the use of additional courses not included on the Advising Worksheet by completing an Appeal Form for "Study Emphasis Electives". It is highly advised that the student submit this paperwork prior to taking the course to guarantee that the course will be acceptable towards their degree plan. (see the last paragraph on page 6 for procedure)

Experiential Learning

The Department of Horticultural Sciences strongly recommends that horticulture majors enroll in Experiential Learning coursework. These opportunities allow students to gain course credit applicable towards the degree plan and to *'learn by doing'*. Experiential learning programs include **Internships**, **Study Abroad Programs**, **Undergraduate Research**, **Service Learning**, and **Honors coursework**.

To learn about experiential learning options, visit http:// http://horttest.tamu.edu/experiential-learning/ or speak with the Experiential Education Program Coordinator:

Marissa Faris
Experiential Education Program Coordinator
HFSB 509/ 979.845.6068
mfaris@tamu.edu

PROFESSIONAL INTERNSHIPS

Professional Internships provide students with the chance to gain field-related work experience while at the same time trying out a potential career path and/or prospective employer. In addition, internships allow students to put what they learn in class into practice.

Internship opportunities abound; TAMU students have interned nationally and internationally. Public gardens, private landscape and retail firms, non-profit organizations, growers, florists, designers, and tree care companies are just a few of the places with which students can intern.

Although many students choose to intern in the summer months, there are opportunities year-round. Enrollment in HORT 484 allows students to receive academic credit and provides access to the Internship Coordinator who will help ensure an educational component in your internship. If you are interested in an internship, contact the Experiential Learning Program Coordinator or the faculty Internship Coordinator, Dr. Leo Lombardini. More information and the complete internship packet are available at http://horttest.tamu.edu/experiential-learning/internships2-2/

Dr. Leo Lombardini Faculty, Internship Coordinator HFSB 426 / 979.458.8079 I-lombardini@tamu.edu

STUDY ABROAD

Study abroad programs give students a first-hand view of another country and culture. With today's global economy, an international perspective is more important than ever before for those entering the workforce. Students can earn core curriculum credit, elective credit, internship/research credit, or transfer credit from a foreign university depending on the details of the program.

Study abroad opportunities are available for all students and can last from a week to a year. With good planning, study abroad can help you gain valuable international experience while completing your degree on time. Funding resources are available, both through the Department of Horticultural Sciences and through the Study Abroad Programs Office.

Not sure if you want to study abroad? Talk to students who have done it. An active study abroad mentor program is available to help you make your decision and begin planning. Speak with the Experiential Learning Program Coordinator or visit http://horttest.tamu.edu/experiential-learning/experiential-learning/study-abroad/ to get started.

UNDERGRADUATE RESEARCH & DIRECTED STUDIES

Undergraduate Research and Directed Studies enable the student to form special working relationships with faculty members within the department and, at the same time, gain valuable learning experiences. The student is responsible for contacting the faculty member that she or he wishes to work with, and together they must fill out the HORT 491 or 485 contract form available from the Advising Office (HFSB 204).

HORT 491 (Undergraduate Research) allows students to gain hands-on experience in plant science and laboratory methods while working on a research project. Students may have the opportunity to travel to scientific meetings to present their findings.

HORT 485 (Directed Studies) allows students to work with the guidance of a faculty member to gain further knowledge in a particular area of Horticulture while participating in special projects.

Curriculum in Horticultural Sciences

The Department of Horticultural Sciences offers a Bachelor of Science and a Bachelor of Arts degree in Horticulture. These degrees include 6 emphasis areas described in the following pages. Graduates in all emphasis areas are prepared for graduate studies in horticulture and other plant related sciences, as well as other academic areas including but not limited to; agricultural business, teacher certification and landscape architecture.

CHOOSING AN EMPHASIS AREA AND SUITABLE ELECTIVES

The following pages include the most current TAMU Catalog Degree Plans for the Department of Horticultural Sciences along with the approved electives for the "Horticulture Specialization Requirements" and the "Study Emphasis Electives" for each of our six Emphasis Areas. The Advising Worksheets were developed by Departmental Faculty and Staff to insure students select the proper coursework to meet their career objectives.

- Read the Emphasis Area Advising Worksheets thoroughly to help select the Emphasis Area most suited to your career goals
- Discuss career objectives with your staff advisors and Faculty to help aid in your career decision.
- Register for courses suited to your classification. For example, freshman and sophomores should concentrate on required Core Curriculum courses as well as 100-200 level courses in HORT. Always refer to the most current TAMU catalog (http://catalog.tamu.edu/) for current course descriptions and prerequisites to insure your success.
- If you are undecided about which Emphasis Area is best for you, choose courses that are required for all majors or electives that apply to all Emphasis areas. For example, INFO 209 (Business Information Concepts) applies as an elective for most Emphasis Areas. Ask a HORT Advisor if you have problems choosing suitable electives.
- If an Emphasis Area looks appealing, choose a "Highly Recommended" HORT course from that Advising Worksheet to learn more about the subject. Ask a HORT Advisor which courses may point you in the right direction.
- Once a student has completed 45 credit hours, selecting an Emphasis Area is strongly suggested. Students must complete an "Emphasis Area" form so that elective courses may be loaded into the student's degree plan audit available at https://howdy.tamu.edu/.
- If you find a course that you would like to enroll in but it is not included on the Advising Worksheet for your Emphasis Area, you may file an appeal. Students will complete a simple form including the reason that the course relates to your emphasis area and should be considered as a "Study Emphasis Elective". Appeals will be due on or before October 15th or February 15th and students will be notified by their NEO email no later than November 1st or March 1st, respectively. Once the appeal is granted, the elective course will be applied as a "Study Emphasis Elective" on the student's degree plan. It is highly advisable to file the appeal form before taking the course.

Bachelor of Science Emphasis Areas [Minor Optional]

Fruit and Vegetable Production and Management

More people today are aware of the importance of fresh fruits and vegetables in their diets than at any time in history. As a result, the production of these crops is increasing for domestic use and export.

The emphasis area of fruit and vegetable production specializes in the science and practice of growing, harvesting, handling, storing, processing, and marketing fruits and vegetables. This emphasis area provides students with the knowledge and skills needed to be current on new varieties, cultural practices, mechanization, weed and pest control, harvesting, storage, processing, marketing, and personnel and financial management. Students graduating in this emphasis area are prepared for careers as growers and farm managers; as production field advisors for fresh market, processing, and vegetable seed companies; or as field advisors for allied industries that manufacture production and harvest machinery, fertilizers, and agricultural chemicals. They can also find careers in fruit and vegetable marketing as managers of produce firms; as supervisors of storage; or as sales people, field advisors, buyers, brokers or managers of marketing and promotional organizations. Fruit and vegetable majors also enter the field of international horticulture as overseas supervisors for commercial companies, as participants in Peace Corps and other humanitarian endeavors, or technical assistants with USAID or international food production, research or teaching programs.

Nursery/Floral Crop Production and Management

Production of floral and nursery crops has been a rapidly expanding industry and has become a major contributor to the economy of Texas and the nation. This industry requires college graduates who understand the basics of ornamental plant production and use, and have a keen sense of business and management skills.

Greenhouses provide a protected environment for producing potted and bedding plants, cut flowers, transplants for field production and out-of-season fresh vegetables and berries. Excellent career opportunities exist for graduates specializing in greenhouse crop production.

Nursery production includes field and/or container growing of the many woody and herbaceous species utilized in landscapes or planted in orchards and vineyards. Crops types include shade and flowering trees, narrow-leafed evergreens, broad-leafed evergreens, deciduous shrubs, tree and small fruits, vines and ground covers and herbaceous perennials.

In addition, the demands for plants for environment enhancement and the need for personnel trained in the requirements of production, maintenance, marketing and utilization of these plant materials are creating exciting career opportunities. Students who study production are employed as growers and production managers in greenhouses and nurseries and as research technicians, extension specialists, and teachers. Students with interests in marketing may work with producers, wholesale suppliers, garden centers and other retail outlets.

Landscape Management

Landscape trees, shrubs, bedding plants, foliage and flowering potted plants and cut flowers have long been valued for their contributions to the quality of the environment in which we live, work and play. Successful landscape management companies provide an integrated approach to landscape contracting and managing landscape projects from inception through maintenance. The Landscape Management emphasis area focuses on plants and landscape materials, plant identification and culture, plant installation, and landscape construction and maintenance. Students in this emphasis area gain knowledge and skills to prepare them to create preliminary landscape designs, install plantings and steward their creations. Job opportunities are plentiful for individuals with targeted educational backgrounds and experience in landscape management including careers in installation, management and maintenance of interior as well as exterior landscapes. Landscape management careers span from hotels and resorts, planned communities, corporate campuses, private estates, municipal properties, golf courses, theme parks, retail and entertainment centers, sports complexes and residential developments.

Science & Biotechnology

The Science and Biotechnology emphasis area is intended for, but not limited to, those students who feel they will go to graduate school and provides these students with a strong foundation in basic sciences. Career opportunities for graduates in this area who complete advanced graduate degrees include teaching and research at universities and private industry research. Graduates with good communication skills may also have career opportunities with consulting firms and the Cooperative Extension Service communicating scientific research findings to the public in an applicable and understandable format. Students graduating with a BS and MS degrees, with research experience and skills, will be very competitive for lab bench positions, but the MS will facilitate promotions to supervisor and leadership positions. In addition to larger companies, there are many smaller companies and start-ups looking for recent biotechnology graduates. Skills in tissue culture and transformation, recombinant DNA and molecular biology, protein and nucleic acid biochemistry, genomics, proteomics, and bioinformatics are particularly useful.

BS HORT - DEGREE PLAN - Catalog 135

Name		Emphasis Area					
UIN#		Todays date					
• .	ement (2 courses) Cultural Diversity (6 hrs)	· / — — · · · · / —					

International & Cultural Diversity (6 h			36 hrs of 300-400 level coursework		
	Credit Hours Grade	Projected Date		Credit Hours Grade	Projected Date
University Core Curriculum	Hours Grade		Horticulture Specialization Require		
Communication (6)			HORT 225 or 315 (900sections) ¹	1 or 3	
ENGL 104 (ENGL 1301)	3		HORT ²	3	
Communication Elective ¹	3		HORT ²	3	
Mathematics ¹ (6)			HORT ²	3	
mathematics (c)	3		HORT ²	3	
	3		HORT ²	3	
Natural Sciences (8)	3		Total	::18:::	
BIOL 101 or 111 (BIOL 1411 or 1406)	4		Supporting Field Requirements		
CHEM 101 & 111 (CHEM 1411)	4		CHEM 222 (CHEM 2323) Org. Chem	3	
Humanities ¹ (3)	_ -		GENE310/315/320Genetics	3	
Tranianites (5)	3		SCSC 301 Soil Science	4	
Visual & Performing Arts ¹ (3)			MEPS 313 Intro Plant Physiology	3	
rioual a refreshing / lite (e)	3		ENTO 201 Gen. Entomology	3	
Social & Behavioral Sci.1 (3)			PLPA 301 & 303Plant Path. & Lab	4	
. , ,	3			20	
Kinesiology (2)			Study Emphasis Electives ³		
KINE 198 Health & Fitness	1		Study Empiracio Electrico		
KINE 199 (S/U)- Req Phys. Act.	1				
U.S. History ¹ (6)					
HIST (American) (HIST 1301)	3				
HIST (Amer. /TX) (HIST 1302 or 2301)	3				
Political Science ¹ (6)					
POLS 206 (GOVT 2305)	3				
POLS 207 (GOVT 2306)	3				
Total Core Curriculum	::43 ::				
Llastia de la Cariana Barania de la Cariana					
HORT 101Concepts of Hort Sciences	1		-		
•	_				
HORT 201 Hort Science (AGRI 1315) HORT 202 Hort Sciences Lab	1				
HORT 326 Plant Propagation	3				
HORT 481 Seminar (900section) ¹	1			30	
Total	::: 9 :::				
1000					
			TOTAL HOURS	120	

¹Approved requirements outlined in TAMU catalog. Students must complete 6 credit hours of International and Cultural Diversity courses and two courses in their major that are designated as writing intensive (W) 900 section number.

²Hours to be selected from the approved "Horticulture Specialization Requirements" from the appropriate Advising Worksheet for the Emphasis Area chosen by the student.

³Hours to be selected from the approved "Study Emphasis Electives" from the appropriate Advising Worksheet for the Emphasis Area chosen

by the student. Additional courses may be approved if the student submits proper documentation through the appeals process.

⁴Some proficiency in a foreign language met by: 2 full years in high school, 2 semesters at college level or exam. See TAMU catalog for full de

BS HORTICULTURE: Fruit & Vegetable Production & Management

Career Opportunities:

Orchard Manager

Vegetable Farm Manager

Technician or field representative for fruit or vegetable processor

Federal or state inspector for fruit and vegetables

Producer of fruits, nuts, vegetables, herbs

Commercial Seed Producer

Border, Port and Homeland Security Agents

Sales or technical representative for seed companies, horticultural supply firms and chemical companies Wholesale or retail purchaser/ sales/technical service dealing with fresh or processed fruits and vegetables for chain stores, garden centers, government institutions and wholesale distributors.

Marketing and Sales Representative of Fruits & Vegetables

Marketing and Sales Representative of any product associated with the production of fruits and vegetables

Horticulture Specialization Requirements (18 hours required)

These courses are required for this emphasis area:

HORT 319 Fruit and Nut Production

HORT 325 Vegetable Crop Productions

Writing Intensive HORT course (choose from HORT 225 or 315)

Choose the additional hours from the following:

HORT 301 Garden Science

HORT 311 Principles of Food Processing

HORT 404 Plant Breeding

HORT 418 Nut Culture

HORT 419 Grape and Small Fruit Culture

HORT 420 Concepts in Wine Production

HORT 421 Enology

HORT 423 Tropical Horticulture

HORT 428 Commercial Greenhouse Management

HORT 431 Nursery Production and Management

HORT 440 International Horticulture

HORT 446 Commercial Fruit and Vegetable Processing

HORT 484 Internship

Study Emphasis Electives (30 hours required)- Choose from the following:

Recommended

Any HORT Course up to 15 hours

The following HORT courses are Highly Recommended: HORT 225 Horticulture Learning Community, HORT 301 Garden Science, HORT 311 Principles of Food Processing, HORT 404 Plant Breeding, HORT 418 Nut Culture, HORT 419 Grape and Small Fruit Culture, HORT 420 Concepts in Wine Production, HORT 421 Enology, HORT 423 Tropical Horticulture, HORT 428 Commercial Greenhouse Management, HORT 431 Nursery Production and Management, HORT 440 International Horticulture, HORT 446 Commercial Fruit and Vegetable Processing, HORT 484 Internship

ACCT 209 Survey of Accounting Principles or ACCT 229 Introductory Accounting

AGEC 105 Intro to Agricultural Economics

AGEC 314 Marketing Agricultural and Food Products

AGSM 201 Farm Tractors and Power Units

AGSM 301 Systems Analysis in Agriculture

AGSM 335 Water and Soil Management

AGSM 360 Occupational Safety Management

AGSM 435 Irrigation Principles and Management

ALED 340 Survey of Leadership Theory

ECON 202 Principles of Economics

ECON 203 Principles of Economics ENTO 320 Honey Bee Biology ENTO 401 Principles of Insect Pest Management ENTO 402 Field-Crop Insects ENTO 405 Horticultural and Floricultural Entomology MGMT 309 Survey of Management MKTG 409 Principles of Marketing SCSC 422 Soil Fertility and Plant Nutrient Management SPAN 101 Beginning Spanish I	BS HORTICULTURE:
ENTO 320 Honey Bee Biology ENTO 402 Field-Crop Insect Pest Management ENTO 402 Field-Crop Insect Set Set Management ENTO 402 Field-Crop Insect Set Set Management MKTG 409 Principles of Marketing MKTG 409 Principles of Marketing SCSC 422 Soil Fertility and Plant Nutrient Management SPAN 101 Beginning Spanish I SPAN 102 Beginning Spanish I SPAN 102 Beginning Spanish I Other Suitable Electives ACCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting AGEG 335 Principles of Farm and Ranch Management AGEG 335 Principles of Farm and Ranch Management AGEG 334 Food and Agricultural Law AGEG 334 Food and Agricultural Law AGEG 334 Food and Agricultural Law AGEG 334 International Trade and Agriculture AGEG 435 International Trade and Agriculture AGEG 453 International Agribusiness Marketing AGEG 105 Intro to Agricultural Communications AGEG 105 Intro to Agricultural Communications AGEG 105 Intro Agricultural Communications AGEG 106 Intro Agriculture Systems and Renewable Natural Resources ATMO 201 Atmospheric Science COMM 203 Public Speaking COMM 203 Public Speaking COMM 203 Public Speaking Computer Course – Choose from: AGES 201 Computer Applications in Agriculture or INFO 209 Business Information Concepts or RENR 201 Computer Applications in Agriculture ENGL 210 Scientific and Technical Writing or ENGL 301 Technical Writing FINC 201 Personal Finance	Fruit & Vegetable Production & Management (continued)
ENTO 401 Principles of Insect Pest Management ENTO 402 Field-Crop Insects ENTO 405 Horticultural and Floricultural Entomology MGMT 309 Survey of Management MKTG 409 Principles of Marketing SCSC 422 Soil Fertility and Plant Nutrient Management SPAN 101 Beginning Spanish I Other Suitable Electives ACCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting ACCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting ACCT 310 Survey of Management in Agriculture ACCT 310 Survey of Management in Agriculture ACCT 310 Survey of Management in Agriculture ACCT 310 Finiciples of Farm and Ranch Management ACCT 310 Survey of Management in Agriculture ACCT 310 Finiciples of Farm and Ranch Management ACCT 310 Survey of Management in Agriculture ACCT 310 Finiciples of Farm and Ranch Management ACCT 310 Finiciples of Human Nutrition ACCT 310 F	ECON 203 Principles of Economics
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BS HORTICULTURE: Nursery/Floral Crop Production & Management

Career Opportunities:

Producer of nursery/floral crops, cut flowers, herbs

Greenhouse Crop Manager

Wholesale Nursery Manager

Plant Propagator

Sales or technical representative for seed companies, horticultural supply firms and chemical companies

Wholesale or retail purchaser/ sales/technical service dealing, cut flowers, nursery/floral crops for chain stores,

garden centers, government institutions and wholesale distributors

Marketing and Sales representative of nursery/floral crops

Marketing and Sales representative of any product associated with the production of nursery/floral crops Retail Garden Center Manager

Horticulture Specialization Requirements (18 hours required)

These courses are required for this emphasis area:

HORT 306 Woody Ornamental Plants or HORT 308 Landscape Plant Materials

HORT 428 Commercial Greenhouse Management

HORT 431 Nursery Production and Management

Writing Intensive HORT course (choose from HORT 225 or 315)

Choose the additional hours from the following:

HORT 301 Garden Science

HORT 306 Woody Ornamental Plants

HORT 308 Landscape Plant Materials

HORT 309 Interior Plants

HORT 404 Plant Breeding

HORT 423 Tropical Horticulture

HORT 426 International Floriculture Marketing

HORT 429 Floriculture Crop Production

HORT 431 Nursery Production and Management

HORT 440 International Horticulture

HORT 451 Retail Floristry

HORT 484 Internship

Study Emphasis Electives (30 hours required)- Choose from the following:

Recommended

Any HORT Course up to 15 hours

The following HORT courses are Highly Recommended: HORT 225 Horticulture Learning Community, HORT 301 Garden Science, HORT 306 Woody Ornamental Plants, HORT 308 Landscape Plant Materials, HORT 309 Interior Plants, HORT 404 Plant Breeding, HORT 423 Tropical Horticulture, HORT 426 International Floriculture Marketing, HORT 429 Floriculture Crop Production, HORT 431 Nursery Production and Management, HORT 440 International Horticulture, HORT 451 Retail Floristry, HORT 484 Internship

ACCT 209 Survey of Accounting Principles or ACCT 229 Introductory Accounting

ALED 340 Survey of Leadership Theory

AGEC 105 Intro to Agricultural Economics

AGEC 314 Marketing Agricultural and Food Products

AGEC 315 Food and Agricultural Sales

AGSM 201 Farm Tractors and Power Units

ECON 202 Principles of Economics

ECON 203 Principles of Economics

ENTO 401 Principles of Insect Pest Management

ENTO 405 Horticultural and Floricultural Entomology

FRSC 420 Arboriculture

FRSC 421 Urban Forestry

Arsery/Floral Crop Production & Management (continued) GMT 309 Survey of Management KTG 409 Principles of Marketing SC 422 Soil Fertility and Plant Nutrient Management AN 101 Beginning Spanish I AN 102 Beginning Spanish II Other Suitable Electives CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting GEC 330 Financial Management in Agriculture GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management GMO 201 Atmospheric Science
GMT 309 Survey of Management KTG 409 Principles of Marketing CSC 422 Soil Fertility and Plant Nutrient Management CAN 101 Beginning Spanish I CAN 102 Beginning Spanish II CAN 102 Beginning Spanish II CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting CCT 210 Survey of Management in Agriculture CCC 344 Food and Agricultural Law CCC 452 International Trade and Agriculture CCC 453 International Agribusiness Marketing CCJ 105 Intro to Agricultural Communications CCJ 306 Theory and Practice of Agricultural Public Relations CCJ 301 Modern Agri. Systems and Renewable Natural Resources CCM 335 Water and Soil Management CCM 336 Water and Soil Management CCM 336 Management CCM 306 Occupational Safety Management
KTG 409 Principles of Marketing CSC 422 Soil Fertility and Plant Nutrient Management CAN 101 Beginning Spanish I CAN 102 Beginning Spanish II CAN 102 Beginning Spanish II CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting CCC 330 Financial Management in Agriculture CEC 344 Food and Agricultural Law CEC 452 International Trade and Agriculture CEC 453 International Agribusiness Marketing CCJ 105 Intro to Agricultural Communications CCJ 306 Theory and Practice of Agricultural Public Relations CCJ 301 Systems Analysis in Agriculture CCS 3033 Systems Analysis in Agriculture CCS 304 Systems Analysis in Agriculture CCS 305 M 305 Water and Soil Management CCS 305 M 306 Occupational Safety Management
CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting GEC 330 Financial Management in Agriculture GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 305 Water and Soil Management GSM 360 Occupational Safety Management
AN 101 Beginning Spanish I Other Suitable Electives CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting GEC 330 Financial Management in Agriculture GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
Other Suitable Electives CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting GEC 330 Financial Management in Agriculture GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
CCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting GEC 330 Financial Management in Agriculture GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GEC 330 Financial Management in Agriculture GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GEC 344 Food and Agricultural Law GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GEC 452 International Trade and Agriculture GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GEC 453 International Agribusiness Marketing GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GCJ 105 Intro to Agricultural Communications GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GCJ 306 Theory and Practice of Agricultural Public Relations GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GLS 101 Modern Agri. Systems and Renewable Natural Resources GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GSM 301 Systems Analysis in Agriculture GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GSM 335 Water and Soil Management GSM 360 Occupational Safety Management
GSM 360 Occupational Safety Management
MO 201 Atmospheric Science
DMM 203 Public Speaking
omputer Course – Choose from: AGLS 201 Computer Applications in Agriculture or INFO 209 Business Information
oncepts or RENR 201 Computer Applications in Agriculture
IGL 210 Scientific and Technical Writing or ENGL 301 Technical Writing
SM 203 Forest Trees of North America
NC 201 Personal Finance
GMT 105 Intro to Business
GMT 209 Business, Government and Society
GMT 212 Legal and Social Environment of Business
NR 205 Fundamentals of Ecology
NR 410 Ecosystem Management
SC 302 Recreation Turf and/or SCSC 312 Introductory Turfgrass Management Laboratory
SC 435 Ecology of Agricultural Chemicals in Field Crops and Turf
SC 450 Chemical Weed Control and/or SCSC 452 Chemical Weed Control Laboratory
Minors Accepted in:
gricultural Economics
gronomy
ısiness
itomology
prestry
eaching Certification through Agricultural Science or http://www.science.tamu.edu/cmse/mass/content.php?id_dir=46

BS HORTICULTURE: Landscape Management

Career Opportunities:

Development and maintenance supervisor of landscapes in parks, recreation areas, residential homes, businesses, estates, botanical gardens, public and private gardens

Landscape supervisor

Lawn and grounds maintenance manager

Landscape contractor

Arborist

Landscape Construction manager

Landscape Installation manager

Botanical gardens research scientist-plant identification and research

Horticulturist in city, state or national parks

Horticulturist in golf courses or other recreational parks

Environmental consultant

Corps of Engineers employee

Horticulture Specialization Requirements (18 hours required)

These courses are required for this emphasis area:

HORT 306 Woody Ornamental Plants

HORT 308 Landscape Plant Materials

HORT 425 Landscape Maintenance and Construction

Writing Intensive HORT course (choose from HORT 225 or 315)

Choose the additional hours from the following:

HORT 309 Interior Plants

HORT 428 Commercial Greenhouse Management

HORT 429 Floriculture Crop Production

HORT 431 Nursery Production and Management

HORT 484 Internship

HORT 489 Urban Plant Ecology

HORT 489 Horticulture Bidding and Sales

HORT 489 Water Management in Urban Landscapes

Study Emphasis Electives (30 hours required)- Choose from the following:

Recommended

Any HORT Course up to 15 hours

The following HORT courses are Highly Recommended: HORT 225 Horticulture Learning Community, HORT 301 Garden Science, HORT 309 Interior Plants, HORT 332 Horticulture Landscape Graphics, HORT 428 Commercial Greenhouse Management, HORT 429 Floriculture Crop Production, HORT 431 Nursery Production and Management, HORT 432 Horticulture Landscape Design, HORT 442 Horticulture Landscape Design II, HORT 484 Internship, HORT 489 Urban Plant Ecology, HORT 489 Horticulture Bidding and Sales, HORT 489 Water Management in Urban Landscapes

ACCT 209 Survey of Accounting Principles or ACCT 229 Introductory Accounting

AGEC 105 Intro to Agricultural Economics

AGEC 314 Marketing Agricultural and Food Products

AGEC 315 Food and Agricultural Sales

AGSM 201 Farm Tractors and Power Units

AGSM 301 Systems Analysis in Agriculture

AGSM 335 Water and Soil Management

AGSM 435 Irrigation Principles and Management

ALED 340 Survey of Leadership Theory

COSC 253 Construction Materials and Methods I

COSC 254 Construction Materials and Methods II

ECON 202 Principles of Economics

BS HORTICULTURE:
Landscape Management (continued)
ECON 203 Principles of Economics
ENTO 401 Principles of Insect Pest Management
ENTO 405 Horticultural and Floricultural Entomology
ESSM 203 Forest Trees of North America
FRSC 420 Arboriculture
FRSC 421 Urban Forestry
MGMT 309 Survey of Management
MKTG 409 Principles of Marketing
SCSC 302 Recreation Turf and/or SCSC 312 Introductory Turfgrass Management Laboratory
SCSC 422 Soil Fertility and Plant Nutrient Management
SCSC 450 Chemical Weed Control and/or SCSC 452 Chemical Weed Control Laboratory
SPAN 101 Beginning Spanish I
SPAN 102 Beginning Spanish II
Other Suitable Electives
ACCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting
AGEC 330 Financial Management in Agriculture
AGCJ 105 Intro to Agricultural Communications
AGCJ 306 Theory and Practice of Agricultural Public Relations
AGLS 101 Modern Agri. Systems and Renewable Natural Resources
AGSM 360 Occupational Safety Management
BIOL 301 Taxonomy of Flowering Plants
COMM 203 Public Speaking
Computer Course – Choose from: AGLS 201 Computer Applications in Agriculture or INFO 209 Business Information
Concepts or RENR 201 Computer Applications in Agriculture
CVEN 201 Plane Surveying
ENGL 210 Scientific and Technical Writing or ENGL 301 Technical Writing
FINC 201 Personal Finance
GIS Course – Choose from: AGSM 461 Geographic Information Systems for Resource Management or ESSM 351
Geographic Information Systems for Resource Management or RENR 405 GIS for Environmental Problem Solving
LAND 329 Landscape Construction I
MGMT 105 Intro to Business
MGMT 209 Business, Government and Society
MGMT 212 Legal and Social Environment of Business
<u> </u>
RENR 205 Fundamentals of Ecology RENR 410 Ecosystem Management
SCSC 428 Advanced Turf Ecology and Physiology
SCSC 429 Turf Management Systems
SCSC 430 Turfgrass Maintenance
SCSC 435 Ecology of Agricultural Chemicals in Field Crops and Turf SCSC 455 Environmental Soil Science and Water Science
Minors Accepted in:
Agricultural Economics
Agronomy
Business
Entomology
Forestry
Teaching Certification through Agricultural Science or http://www.science.tamu.edu/cmse/mass/content.php?id_dir=46

BS HORTICULTURE: Science and Biotechnology

Career Opportunities:

Research scientist or technician at a university, government agency or lab (USDA, NSF, germplasm resource centers)

Industry research scientist (agrochemical, pharmaceutical, food, seed and nursery)

Professor, lecturer, instructor or teacher in a college or university, K-12 or museums, parks, nature centers Science writing and communication

Science advisor for patent law, public policy, lawmakers

Horticulture Specialization Requirements (18 hours required)

These courses are required for this emphasis area:

HORT 404 Plant Breeding

HORT 428 Commercial Greenhouse Management

HORT 491 Research (Research in Faculty Lab) *Must enroll in course 1 year prior to anticipated graduation date Writing Intensive HORT course (choose from HORT 225 or 315)

Choose the additional hours from the following:

HORT 306 Woody Ornamental Plants

HORT 308 Landscape Plant Materials

HORT 311 Principles of Food Processing

HORT 319 Fruit and Nut Production

HORT 325 Vegetable Crop Production

HORT 418 Nut Culture

HORT 419 Grape and Small Fruit Culture

HORT 421 Enology

HORT 423 Tropical Horticulture

HORT 429 Floriculture Crop Production

HORT 431 Nursery Production and Management

HORT 440 International Horticulture

HORT 446 Commercial Fruit and Vegetable Processing

HORT 484 Internship

HORT 489 Urban Plant Ecology

Study Emphasis Electives (30 hours required)- Choose from the following:

Recommended

Any HORT Course up to 15 hours

The following HORT courses are Highly Recommended: HORT 225 Horticulture Learning Community, HORT 306 Woody Ornamental Plants, HORT 308 Landscape Plant Materials, HORT 311 Principles of Food Processing, HORT 319 Fruit and Nut Production, HORT 325 Vegetable Crop Production, HORT 418 Nut Culture, HORT 419 Grape and Small Fruit Culture, HORT 421 Enology, HORT 423 Tropical Horticulture, HORT 429 Floriculture Crop Production, HORT 431 Nursery Production and Management, HORT 440 International Horticulture,

HORT 446 Commercial Fruit and Vegetable Processing, HORT 484 Internship, HORT 489 Urban Plant Ecology

AGCJ 105 Intro to Agricultural Communications

AGLS 105 Research in Agriculture and Life Sciences

AGLS 125 Life Sciences Learning Community I

ALED 340 Survey of Leadership Theory

BICH: Any Biochemistry Course (example, BICH 410/411 Comprehensive Biochemistry)

CHEM: Any Chemistry Course

ENGL 210 Scientific and Technical Writing or ENGL 301 Technical Writing

ENTO 315 Biotechnology and Society

GENE/MEPS 411 Biology for Crop Improvement

GENE: Any Genetics Course (example, GENE 450 Introduction to Genomics)

PHYS: Any Physics Course

BS HORTICULTURE:
Science and Biotechnology (continued)
STAT 302 Statistical Methods
Other Suitable Electives
AGCJ 203 Agricultural Media Writing I
AGCJ 306 Theory and Practice of Agriculture Public Relations
AGLS 101 Modern Agri. Systems and Renewable Natural Resources
AGSM 461 GIS for Resource Management
BESC 201 Intro to Bioenvironmental Sciences
BESC 314 Pathogens, the Environment and Society
BIOL 111 and 112 Introductory Biology
BIOL 206 Microbiology
BIOL 213 Molecular Cell Biology
BIOL 281 Seminar in Quantitative Biology
BIOL 301 Taxonomy of Flowering Plants
BIOL 328 Plants and People
BIOL 330 Molecules & Life
BIOL 401 Critical Writing in Biology
BIOL 451 Bioinformatics
COMM 203 Public Speaking
COMM 205 Communication for Technical Professions
Computer Course – Choose from: AGLS 201 Computer Applications in Agriculture or INFO 209 Business Information
Concepts or RENR 201 Computer Applications in Agriculture
EHRD 479 Grants and Contracts
ENGL 210 Scientific and Technical Writing or ENGL 301 Technical Writing
ENGL 320 Technical Editing and Writing
ENTO 405 Horticultural and Floricultural Entomology
FINC 201 Personal Finance
FSTC 201 Food Science
GEOG 435 Principles of Plant Geography
GEOS 411 Vegetation Response to Climate Change
NUTR 202 Fundamentals of Human Nutrition
NUTR 203 Scientific Principles of Human Nutrition
PHIL 314 Environmental Ethics
RENR 205 Fundamentals of Ecology
SCSC 303 Crop Ecology
SCSC 465 Crop Management: An Extension Perspective
Minors Accepted in:
Agricultural Communications and Journalism
Agronomy
Biochemistry
Bioenvironmental Sciences
Chemistry
Entomology
Genetics
Teaching Certification through Agricultural Science or http://www.science.tamu.edu/cmse/mass/content.php?id dir=46

BA HORTICULTURAL SCIENCES DEGREE PLAN - Catalog 135

Name	Emphasis Area					
UIN#	Todays date					
Writing Requirement (2 International & Cultura	,	_				

	Credit		Projected		Credit		Projected
	Hours	Grade	Date		Hours		Date
University Core Curriculum				Horticulture Specialization Requir	ements	2	
Communication (6)				HORT 225 or 315 (900sections) ¹	1 or 3		
ENGL 104 (ENGL 1301)	3			HORT ²	3		
COMM 203 (SPCH 1315)	3			HORT ²	3		
Mathematics ¹ (6)				HORT ²	3		
	3			HORT ²	3		
	3			HORT ²	3		
Natural Sciences (8)				Total	18		
BIOL 101 or 111 (BIOL 1411 or 1406)	4			Supporting Field Requirements			
CHEM 101 & 111 (CHEM 1411)	4			ENGL 210 or 301- (ENGL 2311)	3		
Humanities ¹ (3)				Foreign Language	3		
	3			Foreign Language	3		
Visual & Performing Arts ¹ (3)				ENTO 201 Gen. Entomology	3		
	3			PLPA 301 & 303Plant Path. & Lab	4		
Social & Behavioral Sci.1 (3)					16		
	3			Study Emphasis Electives ³			
Kinesiology (2)							
KINE 198 Health & Fitness	1						
KINE 199 (S/U)- Req Phys. Act.	1						
U.S. History ¹ (6)							
HIST (American) (HIST 1301)	3						
HIST (Amer./TX) (HIST 1302 or 2301)	3						
Political Science ¹ (6)							
POLS 206 (GOVT 2305)	3						
POLS 207 (GOVT 2306)	3						
Total Core Curriculum	∴ 43 ∴						
Horticulture Science Requirements							
HORT 101Concepts of Hort Sciences	1						
HORT 201 Hort Science (AGRI 1315)							
HORT 202 Hort Sciences Lab	1						
HORT 326 Plant Propagation	3				∷ 34∷		
HORT 481 Seminar (900 section) ¹	1						
Total	9						
				TOTAL HOURS	120		

¹Approved requirements outlined in TAMU catalog. Students must complete 6 credit hours of International and Cultural Diversity courses and two courses in their major that are designated as writing intensive (W) 900 section number.

²Hours to be selected from the approved "Horticulture Specialization Requirements" from the appropriate Advising Worksheet for the Emphasis Area chosen by the student.

³Hours to be selected from the approved "Study Emphasis Electives" from the appropriate Advising Worksheet for the Emphasis Area chosen by the student. Additional courses may be approved if the student submits proper documentation through the appeals process.

⁴Some proficiency in a foreign language met by: 2 full years in high school, 2 semesters at college level or exam. See TAMU catalog for full de

Bachelor of Arts Emphasis Areas [Minor Required]

Urban Horticulture

The urban horticulture concentration is intended for students interested in professional careers which promote horticulture and emphasize people and their education and enjoyment of plants in an urban setting. Students in this emphasis area can choose to gain skills and experiences in a broad range of areas. This emphasis area prepares students for a variety of career opportunities including careers in public gardens, federal, state, and city horticulture programs, Cooperative Extension Service, professional garden writer/editor or publication manager, horticulture marketing, horticulture education and print and electronic media. Directed technical electives allow the student to concentrate in an area of their interest while encouraging the development of good people skills.

Floral Design/Event Planning

This emphasis provides a strong foundation for undergraduate students who wish to receive a Bachelor's degree in Horticulture that is concentrated in the area of the art of floral design. Graduates in this area are highly skilled for careers in many areas of floral design including: retail floristry, international and national wholesale and retail floral marketing, floral design publishing, event planning, and floral design education.

BA HORTICULTURE: Urban Horticulture

Career Opportunities:

Horticulture teacher in high schools, technical schools and colleges

Garden writer for magazines, newspapers, TV, radio and computer technology.

Director of public garden education and administration

Employee of federal, state and city horticulture program education and administration

Horticulture Specialization Requirements (18 hours required)

These courses are required for this emphasis area:

HORT 301 Garden Science

HORT 306 Woody Ornamental Plants or HORT 308 Landscape Plant Materials or HORT 309 Interior Plants

HORT 335 Sociohorticulture

Writing Intensive HORT course (choose from HORT 225 or 315)

Choose the additional hours from the following:

HORT 306 Woody Ornamental Plants

HORT 308 Landscape Plant Materials

HORT 309 Interior Plants

HORT 423 Tropical Horticulture

HORT 426 International Floriculture Marketing

HORT 428 Commercial Greenhouse Management

HORT 429 Floriculture Crop Production

HORT 431 Nursery Production and Management

HORT 435 Urban Horticulture

HORT 440 International Horticulture

HORT 484 Internship

HORT 489 Urban Plant Ecology

Study Emphasis Electives (34 hours required)- Choose from the following: [Includes required MINOR coursework]

Recommended

Any HORT Course up to 15 hours

The following HORT courses are Highly Recommended: HORT 225 Horticulture Learning Community, HORT 306 Woody Ornamental Plants, HORT 308 Landscape Plant Materials, HORT 309 Interior Plants, HORT 423 Tropical Horticulture, HORT 426 International Floriculture Marketing, HORT 428 Commercial Greenhouse Management, HORT 429 Floriculture Crop Production, HORT 431 Nursery Production and Management, HORT 440 International Horticulture, HORT 484 Internship, HORT 489 Urban Plant Ecology

ALED 340 Survey of Leadership Theory

ALED 341 Team Learning

AGEC 314 Marketing Agriculture and Food Products

BIOL 328 Plants and People

FRSC 421 Urban Forestry

MGMT 309 Survey of Management

MKTG 409 Principles of Marketing

Other Suitable Electives

Any AGCJ Course

AGEC 105 Intro to Agricultural Economics

AGEC 315 Food and Agricultural Sales

AGLS 101 Modern Agriculture Systems and Renewable Natural Resources

ALED 342 Learning Organizations

ALED 343 Human Resource Management in Agriculture and Life Sciences

ALED 344 Leadership of Volunteers

ALED 425 Principles of Program Evaluation in Agriculture and Life Sciences

ALED 426 Methods in Adult Agricultural Education

BA HORTICULTURE: Urban Horticulture (continued) ALED 440 Principles of Technological Change ALED 441 Agricultural Extension Organization Methods ALED 442 Professional Communications in Agriculture and Life Sciences ANTH/WFSC 421 Museums and Their Functions COMM 210 Group Communication and Discussion Computer Course - Choose from: AGLS 201 Computer Applications in Agriculture or INFO 209 Business Information Concepts or RENR 201 Computer Applications in Agriculture ECHE 244 School, Family and Community Dynamics in Early Childhood Education **ECON 202 Principles of Economics ECON 203 Principles of Economics** EHRD 374 Organizational Development **EHRD 479 Grants and Contracts** ENTO 405 Horticultural and Floricultural Entomology FINC 201 Personal Finance GIS Course - Choose from: AGSM 461 Geographic Information Systems for Resource Management or ESSM 351 Geographic Information Systems for Resource Management or RENR 405 GIS for Environmental Problem Solving MEPS 201 Social and Environmental Aspects of Plant Physiology NUTR 202 Fundamentals of Human Nutrition POLS 341 Urban Administration PSYC 352 Organizational Psychology **RENR 205 Fundamentals of Ecology** RPTS 201 Foundations of Recreation and Parks **RPTS 202 Foundations of Tourism RPTS 311 Recreation and Tourism Programs** RPTS 340 Recreation, Parks and Diverse Populations RPTS 370 Youth Development Organization and Services RPTS 402 Park Planning and Design SCSC 302 Recreation Turf and/or SCSC 312 Introductory Turfgrass Management Laboratory SOCI 321 Urban Sociology SPAN 101 Beginning Spanish I SPAN 102 Beginning Spanish II **URSC 415 Urban Issues** Minor REQUIRED in one of the following: Agricultural Communication and Journalism

Agricultural Economics

Business

Communications

Forestry

Teaching Certification through Agricultural Science or http://www.science.tamu.edu/cmse/mass/content.php?id dir=46

Tourism Resource Mgmt

BA HORTICULTURE: Floral Design/Event Planning

Career Opportunities:

Floral designer

Retail florist

Floral crops wholesaler

Floral design educator

Floral design garden writer

Event planner

Horticulture Specialization Requirements (18 hours required)

These courses are required for this emphasis area:

HORT 203 Floral Design

HORT 451 Retail Floristry

HORT 452 Floral Design: Weddings and Personal Flowers Writing Intensive HORT course (choose from HORT 225 or 315)

Choose the additional 6 hours from the following:

HORT 301 Garden Science

HORT 308 Landscape Plant Materials

HORT 309 Interior Plants

HORT 426 International Floriculture Marketing

HORT 429 Floriculture Crop Management

HORT 440 International Horticulture

HORT 453 Floral Art

HORT 454 Special Event Design and Production

HORT 484 Internship

Study Emphasis Electives (34 hours required)- Choose from the following: [Includes required MINOR coursework]

Recommended

Any HORT Course up to 15 hours

The following HORT courses are Highly Recommended: HORT 225 Horticulture Learning Community, HORT 301 Garden Science, HORT 308 Landscape Plant Materials, HORT 309 Interior Plants, HORT 426 International Floriculture Marketing, HORT 429 Floriculture Crop Management, HORT 440 International Horticulture, HORT 453 Floral Art, HORT 454 Special Event Design and Production, HORT 484 Internship

ACCT 209 Survey of Accounting Principles or ACCT 229 Introductory Accounting

ALED 340 Survey of Leadership Theory

AGEC 105 Intro to Agricultural Economics

AGEC 314 Marketing Agriculture and Food Products

AGEC 315 Food and Agricultural Sales

AGEC 330 Financial Management in Agriculture

Computer course – Choose from: AGLS 201 Computer Applications in Agriculture or RENR 201 Computer Applications in Agriculture or INFO 209 Business Information Concepts

ECON 202 Principles of Economics or AGEC 105 Intro to Agricultural Economics

ECON 203 Principles of Economics

MGMT 105 Intro to Business

MGMT 309 Survey of Management

MKTG 409 Principles of Marketing

RPTS 320 Festivals, Fairs and Events

RPTS 321 Festivals, Fairs and Event Management II

Other Suitable Electives

ACCT 210 Survey of Managerial and Cost Accounting Principles or ACCT 230 Intro. Accounting

AGEC 340 Agribusiness Management

AGCJ 105 Intro to Agricultural Communications

BA HORTICULTURE: Floral Design/Event Planning (continued) AGCJ 203 Agricultural Media Writing I AGLS 101 Modern Agriculture Systems and Renewable Natural Resources ARTS: Any ARTS Course ENDS: Any ENDS Course FINC 201 Personal Finance RPTS 202 Foundations of Tourism RPTS 311 Recreation and Tourism Programs RPTS 331 Tourism Marketing Minor REQUIRED in one of the following: Agricultural Economics Art and Architectural History Business Communications

Teaching Certification through Agricultural Science or http://www.science.tamu.edu/cmse/mass/content.php?id dir=46

Tourism Resource Mgmt (option to include: Professional Event Manager Certificate courses as part of minor)

Second Degrees, Double Majors, and Minors

Students at Texas A&M University have the option of seeking second degrees, double majors, and minors. These programs enable students to gain valuable information in more than one academic department, and gain University recognition on the transcript and/or diploma. Students majoring in Horticulture may pursue these options in other Departments. Interested students should consult with the academic advisor in the Department that they wish to seek a second degree, double major, or minor from about the requirements of the program.

SECOND DEGREE

A **second degree** is awarded to students who have completed all of the requirements for two separate degrees. A candidate pursuing a second degree will receive two separate degrees and diplomas (i.e., two BS degrees, or a combination of two degrees, such as a BS and a BA). Students who have pursued second degrees in horticulture have commonly come from majors within the College of Agriculture and Life Sciences; however, students from other colleges are also eligible to apply.

DOUBLE MAJOR

A candidate for a *double major* receives one degree (i.e., BS), with both majors indicated on the diploma. A double major usually requires less total course work than a second degree, and it may be integrated, as electives, in the student degree plan. This program is designed to give a student an excellent background in another related field of study.

Students currently enrolled at TAMU must receive approval for the second degree or double major before the student reaches senior standing. Students pursuing a second degree or double major in horticulture must be in good academic standing, with a GPR of 2.0 or above.

MINOR

Horticulture students may also pursue a *minor*. The minor program provides a concentration of study in another scholastic department, and is recognized on the transcript after graduation, but not on the diploma. Classes taken for a minor may count as *Study Emphasis Electives*, depending on the Emphasis Area selected by the student. Minor requirements include a minimum of 15-18 hours of course work in a Department, of which at least 9 must be 300-400 level. Students interested in pursuing a minor should contact an advisor in that department, and proceed with the necessary paperwork. Minor requirements may be viewed at: http://unst.tamu.edu/minors.aspx

Dates, Deadlines, and Policies

FULL-TIME STATUS

- Twelve hours or more is considered a full-time load. Part time students (those taking 1-11 semester credit hours) will be charged tuition and fees based on the number of hours they take, plus course fees and other fees charged on a fixed rate per semester basis. Full-time undergraduate students (those taking 12 semester credit hours or more) will be charged a flat rate for designated tuition irregardless of the number of hours taken. Students are encouraged to take at least 15 semester credit hours to receive full value under the flat rate policy and will benefit from significant savings for hours in excess of 15.
- A student who drops below 12 hours in a given semester may become ineligible for certain campus activities (i.e., Corps of Cadets, athletics, fraternity or sorority pledging, campus or college organizations); become ineligible for scholarships, financial aid, loans, campus housing (must carry a minimum of nine hours), or be dropped from your family insurance and/or Social Security or Veteran's benefits. You may also fall behind the pace required to graduate in four years.

TRANSFER CREDIT

Many students transfer into the Department of Horticultural Sciences from other curricula at Texas A&M University or from other colleges or universities. Guidelines for the acceptance of credits earned in other program(s) include:

- Once a student has selected an "Emphasis Area" he/she may use the designated Advising Worksheet to determine if the transfer course credit is appropriate for their degree plan. If a student has taken a course not included on the Advising Worksheet the student may submit an Appeal Form to have the course considered for inclusion on the degree plan. (see page 6 for details)
- Credits earned within the TAMU system will be evaluated by TAMU course number. Students will receive credit on courses with a grade of "D" or above.
- Students will receive credit on courses with a grade of "C" or above when transferred from institutions outside of TAMU.
- Courses transferred by number from institutions outside the TAMU system are considered the equivalent of the numbered courses at TAMU.
- Courses transferred by **title** from institutions outside the TAMU system either have no comparable course at TAMU or an evaluation to determine which course is comparable has not been made by the department offering the course. The advising staff and the Department Head will determine whether, and how, these courses can be used in the degree plan. In many cases, that student will need to discuss the course with the instructor of a comparable course at TAMU.
- As a general rule, only horticulture courses that transfer in by number or where a 2+2 agreement has been developed will be accepted within the Department. Approval of any other horticulture courses must be determined by the comparable course instructor in the Department of Horticultural Sciences. A letter verifying equivalent course work must be submitted to the Advising Office (HFSB 204).
- Grades from transfer courses from other colleges and universities are not included into your grade point average at Texas A&M University.
- A minimum of 36 semester hours of 300 and/or 400 level course work must be successfully completed in residence at Texas A&M University to obtain a baccalaureate degree. A minimum of 12 of these 36 semester hours must be in Horticulture.

CO-ENROLLING

It is very common for students to co-enroll at TAMU and Blinn College. It is the responsibility of the student to meet all of the admission requirements, course prerequisites and procedures of Blinn College (http://www.blinn.edu).

If you plan to take courses at another community college, equivalent course numbers may be found under the "Course Matrix" on the Texas Common Course Numbering System website (http://www.tccns.org).

CHANGING YOUR MAJOR

For many reasons, a TAMU student may wish to change from one curriculum to another. After consultation with his/her advisor, a student should initiate a change of curriculum by scheduling an appointment with an advisor in the new college or department. Students in good academic standing, with a GPA of 2.0 or higher, may be permitted to transfer into the Horticulture Department.

- First semester freshmen may initiate a curriculum change through the fifth day of the semester. After the fifth class day, no curriculum change will be considered until after the end of the semester.
- New transfer students cannot change majors until final grades are recorded after completion of the first spring or fall semester at TAMU.
- A student in good academic standing (based on the receiving college's requirements) may initiate a curriculum change during the semester no later than the last day of Q-drops.
- Five days after final grades are available, curriculum changes may once again be initiated for all students. (See Rules and Regulations.)

ADDING/ DROPPING A COURSE OR ENROLLING FOR THE TERM:

- Adding/Dropping a class is permitted during the first 5 class days during Fall/Spring.
- Adding/Dropping a class is permitted during the first 4 class days during summer semesters.
- A student requesting to add a course after these deadlines must have the approval of the student's dean and department.

Q-Drop Policy (Changes Effective 2013-2014)

CURRENT POLICY

- Allowed through the 50th day of classes during Fall/Spring.
- Allowed through the 15th day of classes during summer semesters.
- Student completes form requesting Q-drop and receives approval from the Department (HFSB 204). The form is processed by the HORT Advising Office. This form is available at: http://registrar.tamu.edu/forms/Q-Drop Form.pdf
- The course will appear on your transcript with the designation "Q". A Q-drop does not affect grade point ratio.
- No money will be refunded.
- You are allowed only THREE (3) Q-drops during your undergraduate studies at TAMU.
- After the Q-drop period, individual courses may NOT be dropped you must complete the class or withdraw from the University.
- Simply not attending class is NOT considered dropping the class. If a student fails to drop a course(s) by filling out and submitting the appropriate forms, the student will earn a grade of "F" in the course(s).

REVISED POLICY (PLANNED CHANGES FOR 2013-2014, EFFECTIVE 5:00 P.M., FRIDAY, AUGUST 23, 2013)

- Extended to the 60th day of classes during Fall/Spring
- Allowed FOUR (4) Q-drops during your undergraduate studies at TAMU.

FIRST YEAR GRADE EXCLUSION POLICY (TERMINATED AFTER 2012-2013)

A fully admitted, currently enrolled Texas A&M undergraduate student as defined by the Texas Higher Education Coordinating Board as "first time in college" may elect to exclude from his/her undergraduate degree and cumulative GPR calculation grades of D, F, or U. This exclusion shall be permitted for up to a maximum of three courses taken for credit at Texas A&M University during the twelve month period beginning with the student's initial enrollment at Texas A&M University.

Information on this policy is available at: http://registrar.tamu.edu/Current/GradeExPolicy.aspx

**IMPORTANT: First Year Grade Exclusions (FYGE) are being terminated after the 2012-2013 Academic Year. FYGE termination is in effect the last work day before fall semester begins in 2013, 5:00 p.m., Friday, August 23, 2013.

SCHOLASTIC PROBATION AND SUSPENSION

Scholastic Probation will occur in any semester that your GPR drops below 2.0. Student Rules http://student-rules.tamu.edu/ contains definitions and procedural outlines for matters like "scholastic deficiency," "scholastic probation," and other related matters upon which these guidelines are based.

A grade point deficiency is calculated by determining the number of grade points below a C average (below a 2.0). The following formula is used to calculate your grade point deviation from a C average:

Using HOWDY Terminology→ "QUALITY POINTS" - "GPA HOURS" * 2

GRADE POINT DEVIATION FROM A C AVERAGE = (TOTAL GRADE POINTS EARNED) - (TOTAL CREDIT HRS. ATTEMPTED X 2)

The following rules apply to students who are on probation while majoring in Horticulture:

- A student whose grade point average falls below a 2.0 will be on academic probation the following semester or summer term.
- A registration block will be placed on a student who is on scholastic probation.
- The student will be notified in writing that he/she has been placed on academic probation, and will be required to have a conference with the Department Head to discuss probationary conditions before continuing at TAMU in the Department of Horticultural Sciences.
- The student will be notified in writing of the conditions of his/her probation, as discussed during the conference with the Department Head.
- A student on probation who fails to meet her or his probationary requirements as set by the Associate Department Head for Undergraduate Programs, may be suspended from the Department of Horticultural Sciences for the following semester. The student may have the option to apply for readmission to the Department after his/her probationary term has expired.
- If special circumstances warrant, exceptions may be made to these policies. Appeals to these policies should be made first through the Department Head, If the issue has not been resolved satisfactorily, at that point, the appeal should be made to the Associate Dean of the College of Agriculture and Life Sciences.

REGISTRATION BLOCKS

Registration blocks prevent you from registering for the next semester. Many offices at TAMU can block you from registering. Only the program that put the registration block in the computer can remove it.

For example, registration blocks are used in the Horticultural Sciences Department when a student is on academic probation. Lifting or removing a block to allow registration activity can only be done by meeting with the Department Head or advising staff. You may check for blocks at Howdy (https://howdy.tamu.edu)

WITHDRAWAL

- Students are responsible for personally withdrawing from the University.
- It is recommended that you talk with your professors before withdrawing.
- The last date to withdraw from the University is the last day of the Q-drop period.
- No student will be allowed to withdraw from the University after final exams begin.
- To withdraw from the University, you must obtain the appropriate form and signature from the Dean's Office (AGLS 515). Procedures are available at: http://registrar.tamu.edu/Current/Withdrawal.aspx
- The student's department, the student's Dean's Office, or professors cannot withdraw a student from the University. Should mitigating circumstances arise and the student is unable to "personally" withdraw from the University, the University Department of Student Affairs (979-845-5262) should be contacted for the correct steps.

TUITION CHARGED FOR EXCESS CREDIT HOURS

Texas A&M University will charge tuition at the non-resident rate to all students who exceed the semester credit hour limit for their program. Excess semester credit hours are those which accrue after the student exceeds by 30 hours the number of semester credit hours required for the completion of the degree program in which the student is enrolled. Thus, the student may accumulate up to 30 hours beyond those required for the chosen degree program and not exceed the limitation.

Information on this policy is available at: http://registrar.tamu.edu/General/ExcessCredHr.aspx

THIRD REPEAT SUPPLEMENTARY FEE

A non-repeatable course that is attempted by a student more than twice at a public institution of higher education in Texas may not be reported for state funding. As a result, the institution must either pass the non-funded portion to all students, or charge a supplementary fee to the student who is repeating the course. Texas A&M University has chosen to assess a supplementary fee to only those students repeating the course more than twice.

A student attempting certain courses more than twice at Texas A&M University will be subject to a supplementary fee of \$125 per semester credit hour (\$375 for a 3 hour course) for the repeated course, in addition to tuition and required fees associated with the course.

Information on this policy is available at: http://registrar.tamu.edu/General/ThreePeat.aspx

Department of Horticultural Sciences Undergraduate Clubs

TAMU HORTICULTURE CLUB

The Horticulture Club enables members to increase their knowledge and skills in many areas of horticulture while enhancing people skills and positive work attitudes. It provides opportunities to meet people within the department, industry and profession. The Horticulture Club is a great place to meet new friends, gain experience, and have a lot of fun. Members also may pursue an optional path toward Master Gardener certification. The TAMU Horticulture Club is a growing organization and would love to have you as a member. The club meetings and announcements are posted on the departmental bulletin boards, banners in the Atrium, and their web site (http://hortclub.tamu.edu/).

STUDENT CHAPTER OF THE AMERICAN INSTITUTE OF FLORAL DESIGNERS (SAIFD)

This organization's primary functions are in floral design. Any student with an interest in floral design may join. Students sponsor speakers, attend field trips, and participate in special programs of the Benz School of Floral Design. SAIFD participates in several social activities each semester, and holds meetings each month. SAIFD earns its funds, and members acquire vital hands-on design experience, by doing floral arrangements for other organizations on campus, by decorating area homes for the Christmas holidays, and by special floral sales. More details can be found at http://aggie-horticulture.tamu.edu/saifd/Welcome.html

PI ALPHA XI

This organization is the national floriculture and ornamental horticulture honor society. Members invited to join must have at least a junior standing and have a minimum GPR of 3.25. The organization promotes at least one major project each year. Among its activities is an annual initiation event.

SUSTAINABLE AGRICULTURE STUDENT ASSOCIATION (SASA)

The Sustainable Agriculture Student Association (SASA) is a student organization formed to unify a body of volunteers and foster an experiential learning community to expose students to aspects of local and organic agriculture in conjunction with the Howdy! Farm. The association accomplishes this goal by creating educational opportunities for those individuals interested in sustainable agriculture. The Howdy Farm currently sees around 350 students a semester from a combination of volunteer students and courses offering credit for service. Students involved with the farm come from various colleges and backgrounds. Learn more at http://studentfarm.tamu.edu

Special Programs

HORTICULTURAL SCIENCES DEPARTMENT SCHOLARSHIPS

A large number of scholarships are available to Horticulture students. These scholarships are usually awarded at the Departmental Annual Awards Banquets held on Parent's Weekend each spring. Students apply using the University Continuing Student Scholarship Application. You may obtain application forms from the following website: https://scholarships.tamu.edu/. Application deadline for these scholarships is February 1.

The William C. Welch Landscape Horticulture Scholarship has a separate application found at http://hortsciences.tamu.edu/undergraduate-programs/scholarships-financial-aid/. Application deadline for this scholarship is also Feb. 1.

COLLEGE OF AGRICULTURE AND LIFE SCIENCES SCHOLARSHIPS

The College of Agriculture and Life Sciences offers scholarships to qualified students. Students apply using the University Continuing Student Scholarship Application. You may obtain application forms from the following website: https://scholarships.tamu.edu/. Application deadline for these scholarships is February 1.

UNIVERSITY HONORS PROGRAM

The Honors Programs at Texas A&M University challenges promising students to participate in an intellectual community of life-long learners who excel academically, advance knowledge through research, and pursue cultural understanding through international experiences. Incoming freshmen apply to the University Honors Program by December of their senior year in high school. Continuing students at Texas A&M may also apply to the University Honors Program up until they have completed 60 hours at TAMU. Any continuing student with a 3.5+ cumulative GPR may register for Honors courses, but only students admitted to the University Honors Program or those participating in college or departmental Honors tracks have access to resources such as specialized advising, Honors Priority Registration, Honors Course Contracts, etc. Honors courses are noted in the Schedule of Courses with the designation of 200-series section numbers for the fall and spring semesters. A list of available Honors courses for each semester is available by searching the schedule of courses in Howdy by the Honors course attribute. Honors and Undergraduate Research also provides opportunities for all students to get involved with research and other hands-on learning opportunities. For more information go to: (http://honors.tamu.edu).

SUPPLEMENTAL INSTRUCTION

Texas A&M University's Supplemental Instruction (SI) program targets traditionally difficult core curriculum courses, and provides regularly scheduled, out-of-class study sessions. The SI sessions are led by undergraduate students who have taken the course and been trained in pro-active learning and study strategies. The SI leaders attend all course lectures, take notes, and read the assigned materials. They serve as leaders for organized group study, and help students develop pro-active learning skills. Supplemental Instruction works. Nationally, SI participants earn course grades between one-half and one full letter grade higher than the average course grade of students not participating. SI is offered for many Texas A&M University core curriculum courses. Sessions are open to all students in the course section; participation is free and voluntary. If you are interested in this program, contact Student Learning Center at 979.845.2724 (http://slc.tamu.edu/).

STUDENT COUNSELING SERVICE

The Texas A&M University Student Counseling Center, located in Cain Hall (979.845.4427), is dedicated to improving skills in academic, career planning, and personal areas. The mission of the Learning Skills Center is to provide students with an opportunity to develop knowledge, skills, and attitudes which will enhance their study and test-taking ability, while decreasing anxieties related to academic performance. Services include academic counseling, conferences with student volunteers, faculty grade distribution lists, weekly academic workshops, academic support groups, and self-help study guides.

The Student Counseling Center also provides confidential personal counseling. Counseling provides an opportunity to talk about yourself, your feelings, your values, the way you relate to other people, or any other topic that concerns you. There is no charge for these services.

Academic or personal counseling appointments are available from 8 a.m. to noon and from 1 p.m. to 5 p.m. weekdays. If you find yourself in a crisis/emergency situation, you are encouraged to immediately go to Cain Hall, 8-5 weekdays. After hours, students may call the *Helpline* at 845-2700, or go to the nearest hospital emergency room (http://scs.tamu.edu).

Graduation

In order to graduate with a degree from Texas A&M University, the following requirements for graduation must be met (http://graduation.tamu.edu)

- Completion of all course work on the degree plan.
- A minimum overall GPR of 2.0.
- A minimum GPR of 2.0 in course work within your major field.
- A minimum of 36 semester hours of 300 and/or 400 level course work must be successfully completed in residence at Texas A&M University to obtain a baccalaureate degree. A minimum of 12 of these 36 semester hours must be in Horticulture.
- Graduation application and diploma fee during the semester in which graduation is to occur.
- Other requirements as outlined in the catalog year of the degree plan

APPLICATION

The application deadline for graduation occurs shortly after the semester begins. The procedure includes the following:

- Apply for graduation using Howdy → My Record tab → Degree Evaluation section → Apply for Graduation OR go to http://graduation.tamu.edu/applica.html. Follow the deadlines posted on http://graduation.tamu.edu.
- If you have not had the diploma fee included with your tuition fees, it will be assessed at the time you apply online. All questions should be directed to the Registrar's Office (979.845.1089) at the General Services Building.

GRADUATION WITH HONORS

In order to graduate with honors, a student must have completed at least 60 credit hours at Texas A&M University, and have at least a 3.50 GPA. The following categories are recognized:

Summa cum Laude (GPR of 3.90 - 4.00) Magna cum Laude (GPR of 3.70 - 3.89) Cum Laude (GPR of 3.50 - 3.69)

COMMENCEMENT CEREMONY

The graduation ceremony is held at Reed Arena. For fall/spring semester graduates, there are 3 - 4 separate exercises; the College of Agriculture and Life Sciences only participates in one of them. The commencement ceremony in which COALS students will participate is announced around mid-semester.

SENIOR EXIT INTERVIEWS

Senior exit interviews are conducted by the Head of the Department of Horticultural Sciences. The student will receive an e-mail from the Advising Office telling them when and where to sign up for these interviews. The interviews are usually held during the last few weeks of the semester. These interviews are very important to our Department. We solicit and respect your opinions and concerns about the teaching program, and encourage you to take advantage of this opportunity.

DEPARTMENTAL BREAKFAST/LUNCHEON

The Department of Horticultural Sciences holds a breakfast, luncheon, or reception for its graduates, their relatives, and the faculty in conjunction with the commencement exercises. This event gives the faculty an opportunity to meet the students' families and gives the families an opportunity to learn a little about the department. All graduates are encouraged to attend even if their families are unable to attend.

SENIOR RING

Senior Rings may be ordered at the Former Student's Association Building. Students in good academic standing with a GPR of 2.0 or above, 90 earned undergraduate cumulative hours, 45 earned undergraduate resident, and no blocks are eligible to order a ring. Visit http://www.aggienetwork.com/ring/qualifications.aspx for more details on the qualifications and requirements. Applications for rings are taken at the end of the semester when 90 hours have been completed and verified by the Registrar's office. Rings are usually available 3 months after they are ordered and paid for (http://www.aggienetwork.com/ring).

SCHEDULE OF REQUIRED COURSE OFFERINGS IN HORTICULTURE

A tentative listing of required courses and the semester offered are listed below.

Course		12-13			13-14			14-15	
	<u>Fa</u>	<u>Sp</u>	<u>ss</u>	<u>Fa</u>	<u>Sp</u>	<u>ss</u>	<u>Fa</u>	<u>Sp</u>	<u>ss</u>
HORT 101	XX	XX		XX	XX		XX	XX	
HORT 201	XX	XX		XX	XX		XX	XX	
HORT 202	XX	XX		XX	XX		XX	XX	
HORT 203	XX	XX		XX	XX		XX	XX	
HORT 225	XX			XX			XX		
HORT 301	XX								
HORT 306	XX			XX			XX		
HORT 308		XX			XX			XX	
HORT 309	XX			XX			XX		
HORT 311	XX			XX			XX		
HORT 315	XX	XX		XX	XX		XX	XX	
HORT 319	XX			XX			XX		
HORT 325	XX			XX			XX		
HORT 326		XX			XX			XX	
HORT 332				XX			XX		
HORT 335	XX	XX		XX	XX		XX	XX	
HORT 404					XX				
HORT 418		XX						XX	
HORT 419					XX				
HORT 420	XX	XX		XX			XX	XX	
HORT 421	XX			XX			XX		
HORT 423				XX					
HORT 425		XX			XX			XX	
HORT 426		XX						XX	
HORT 428	XX			XX			XX		
HORT 429					XX				
HORT 431	XX			XX			XX		
HORT 432					XX			XX	
HORT 435				XX					
HORT 440			XX		XX	XX			
HORT 442				XX			XX		
HORT 446					XX				
HORT 451	XX			XX			XX		
HORT 452		XX			XX			XX	
HORT 453				XX					
HORT 454	XX	XX		XX	XX		XX	XX	
HORT 481	XX	XX		XX	XX		XX	XX	
SCSC 301	XX								
CHEM 222	XX								
ENTO 201	XX	XX		XX	XX		XX	XX	
GENE 310	XX								
PLPA 301/303	XX	XX		XX	XX		XX	XX	
MEPS 313	XX	XX		XX	XX		XX	XX	

Texas A&M University - Department of Horticultural Sciences EMPHASIS AREA FORM

In order to plan your course of study, it is important to select one of the EMPHASIS AREAS from either the B.S. or B.A. degrees early in your educational career. Please select one EMPHASIS AREA before completing 45 hours of coursework from the following list:

Che	ck the	e appropri	iate box:		
	B.A.	Urban Horticult	ure	Minor	
	ess Admi			Minorlity and necessary paperwork relate this minor in HFSB 20	i. O4 with your major academic
	B.S.	Nursery/Floral (Crop Production and Man	nagement	
	B.S.	Science and Bio	otechnology		
	B.S.	Fruit and Veget	able Production and Mar	agement	
	B.S.	Landscape Man	agement		
Name			UIN#	E-mail Address	
Signatu	ıre			 Date	

Texas A&M University - Department of Horticultural Sciences Appeal Form for "Study Emphasis Electives" not included on the approved elective lists

Student name		UIN#						
NEO Email		Date						
Check the approp	priate box:							
Catalog 128□	129 🗆 130 🗆 131 🗀 132	2□ 133□ 134□ 135□Other						
Degree	BS Horticulture □ BS	Floriculture						
Emphasis Area	Fruit/Vegetable Prod. & Mgm	t. \square Landscape Management \square						
	Nursery/Floral Crops	Prod. & Mgmt. ☐ Science & Biotechnology ☐						
	BA Horticulture \Box							
Emphasis Area	Emphasis Area Floral Design/Event Planning							
	Urban Horticulture □							
Course Number	Course Number and complete name:							
Semester/Year	course taken							
Name of institut	ion where course was taken _							
Please state the reason that the course you took relates to your emphasis area and should be considered as a "Study Emphasis Elective" (you may include additional information such as syllabi, exams, course description, etc.)								
November 1 st or		th. Students will be notified by their NEO email no later than he appeal is granted, the elective course will be applied as a "Students."	ıdy					
Approved Comments on b	Denied ☐ Dateack	email student						

Texas A&M University Department of Horticultural Sciences HORT 485 - Special Problems Agreement (Must be completed before registration)

Student Name			ID#					
Major	Classification(Must be Jr. or Sr. class)	(Must	GPAt be 2.0 or >)					
Campus Address			Local telephone					
E-mail Address								
HORT 485 Semester HORT 485 Faculty Member (1 credit assigned for each 3 hrs. of work expected per week during the fall/spring semester. Summer semester requires more weekly hours due to the condensed timeframe. A total of 6 cr. hrs. may be applied to HORT degree with approval) Prerequisites or previous HORT experience								
Proposed HORT 485 project (Attach any additional information)								
Final Product: Report Presentation Other The final product must be submitted to the faculty member and to Dr. Dan Lineberger, Head for Horticultural Sciences at least one week prior to the last day of the semester before a grade will be assigned. The approved paperwork should be submitted to the advising office in HFSB 204. Anticipated completion date:								
Approval:								
Student's Signature								
HORT 485 Instructo	or's Signature	Dr. Dan Lineber Horticultural Sci						

Texas A&M University Department of Horticultural Sciences HORT 291/491 – Research

(Must be completed before registration)

Student Name			ID#				
Major			GPAt be 2.0 or >)				
Campus Address	S		Local telephone				
E-mail Address_							
HORT 291/491 Semester HORT 291/491 Faculty Member HORT 291/491 Credit (1-3 cr. hr.) (1 credit assigned for each 3 hrs. of work expected per week during the fall/spring semester. Summer semester requires more weekly hours due to the condensed timeframe. A total of 6 cr. hrs. may be applied to HORT degree with approval) Prerequisites or previous HORT experience							
Proposed HORT 491 project (Attach any additional information)							
Final Product: Report Presentation Other The final product must be submitted to the faculty member and to Dr. Dan Lineberger, Head for Horticultural Sciences at least one week prior to the last day of the semester before a grade will be assigned. The approved paperwork should be submitted to the advising office in HFSB 204. Anticipated completion date:							
Approval:							
	Student's Signature		register for HORT 491 one expected graduation				
	HORT291/491Instructor's Signature	Dr. Dan Lineber Horticultural Sci					