

## Dakota College at Bottineau Course Syllabus

### HORT 235/ Herbaceous Landscape Plants

4 credits

Fall Semester 2019

#### Course Description:

Herbaceous Landscape Plants involves the study of Herbaceous Ornamental Plants such as flowering annuals, biennials, perennials, bulbous plants and herbs. Consideration is given to methods of propagation, adaptability and landscape value. Garden insects and diseases are also covered. Students will be expected to identify various plants by Family, Common Name and Genus species.

#### Course Objectives:

Students will be expected to be competent in the following areas.

1. Identify, describe, and name many common herbaceous annuals and perennials.
2. Growth requirements such as proper soil mixtures and watering techniques for growing bedding plants in the greenhouse and outdoors.
3. Identification and control of common greenhouse and garden insects and diseases
4. Plant maintenance
5. Selecting annual and herbaceous perennials for specific landscape applications
6. Plan and Present Herbaceous Plant Landscape Designs to customers/employers

#### Instructor:

Amy Koehler

#### Office:

Molberg Center Rm. 27

#### Office Hours:

By appointment

#### Phone:

701-228-5605

Email: [Amy.Koehler@dakotacollege.edu](mailto:Amy.Koehler@dakotacollege.edu)

#### Lecture/Lab Schedule:

MW 10:00am- 11:15am; F Lab 10:00am-11:50am

#### Labs will meet in the greenhouse

#### Textbook(s): (recommended)

Armitage's Manual of Annuals, Biennials and Half-Hardy Perennials Timber Press -Published in 2002  
ISBN 0-88192-505

#### Course Requirements:

6 Plant ID and Cultural Quizzes (50pts each)

Other Weekly Quizzes (20 pts each)

Weekly Lab Assignments/participation (10 pts each)

Midterm Plant ID and Cultural Exam (150 pts)

Lab Identification Midterm Exam (50 pts)

Class participation (10pts each)

Class Exercises (20 pts each)

Design Assignments (50 pts each)

Final Lecture Exam (100 pts)

Lab Plant Identification Final Exam (75 pts)

Assigned Design Class Presentation (30 pts)

International Peace Garden Field Trip Participation (60 pts)

**\*\*\*Field Trips will be taken as part of this class in order to gain experience and exposure to the Industries involved in Herbaceous Landscape Plants.**

**GRADING:** Grading is based on a standard college curve, where students earn a grade based upon the percent of total possible points they obtain. Any missed quiz, exam or assignment not made up within the allotted time will be given a zero. The “allotted time” given is at the discretion of the instructor and will be communicated to the students throughout the course. (Note: It is the responsibility of the student to schedule make-up work with the instructor at a time convenient to both parties.) Final letter grades are assigned based on the following criteria:

**A = 90-100% of the total points**

**B = 80-90% of the total points**

**C = 70-80% of the total points**

**D = 60-70% of the total points**

**F = <60% of the total points**

**\*The instructor reserves the right to modify this syllabus and course requirements at any time.**

**\* Note September 13<sup>th</sup> there will be scheduled a \*mandatory all day field trip to the International Peace Garden**

**\*\* Travel to the International Peace Garden. Mandatory attendance.**

**(Identification required is a minimum of an official birth certificate and photo ID. A passport or passport card is preferred).**

**\*Note Sometime in November there will be scheduled a \*mandatory field trip to Lowes Garden Center in Minot, ND**

**Tentative Course Outline/Topics:**

Week/Unit	Topics and Assignments
1 Unit 1: Plant names and Online Plant Resource	<b>Lecture:</b> Memorization Skills - learning the plant names successfully, Plant Names and Online Plant resources <b>Week 1 Plant List</b> <b>Reading:</b> Latin Linguistics - A Useful Tool in Horticulture-ISU Extension <b>Memorization Strategies Exercise:</b> See BlackBoard Page <b>Plant Name Exercise:</b> See BlackBoard Page <b>Lab</b>
2 Unit 2: Plant Identification and Identifying Characteristics <b>Quiz 1</b>	<b>Quiz 1-Week 1 Plant List</b> <b>Lecture:</b> Plant Structure and Characteristics useful for Plant ID <b>Week 2 Plant List</b> <b>Reading:</b> Get to Know the Plants in Your Yard with These Plant ID Tips <b>Plant Description and Identification Exercise:</b> See BlackBoard Page
3 Unit 3: Plant Identification and Plant Families <b>Quiz 2</b> <b>Field Trip to the International Peace Garden-All Day September 13th</b>	<b>Quiz 2-Week 2 Plant List</b> <b>Lecture:</b> Plant Families <b>Watch:</b> Botany in a Day Tutorial, <a href="https://youtu.be/D1DePIU15z4">https://youtu.be/D1DePIU15z4</a> <b>Week 3 Plant List</b> <b>Reading:</b> <a href="http://theseedsite.co.uk/families.html">http://theseedsite.co.uk/families.html</a> <b>Plant Families exercise:</b> See BlackBoard Page <b>Lab: Field Trip to the International Peace Garden</b> <b>Travel to the International Peace Garden. Mandatory attendance.</b> <b>(Identification required is a minimum of an official birth certificate and photo ID. A passport or passport card is preferred).</b>  We will leave campus at 9am and return by 3pm. You will need to bring a sack lunch. This is a mandatory Trip. I will let your other instructors know beforehand to excuse you from any classes you may miss. If there is a conflict that cannot be resolved, <b>you must let me know at least 2 weeks before the trip.</b>

Week/Unit	Topics and Assignments
4 Unit 4: Plant Identification and Native, introduced, invasive and adapted plants <b>Quiz 3</b>	<b>Quiz 3</b> -Week 3 Plant List <b>Lecture:</b> Native, adapted, introduced, and invasive plants. <b>Week 4 Plant List</b> <b>Reading:</b> Living Landscapes in North Dakota: A GUIDE TO NATIVE PLANTSCAPING <b>Native Plants exercise:</b> See BlackBoard Page <b>Lab</b>
5 Unit 5: Plant Identification and Pollinator, birds and biodiversity plant selections <b>Quiz 4</b>	<b>Quiz 4</b> -Week 4 Plant List <b>Lecture:</b> Plants for pollinators, birds and biodiversity <b>Video:</b> Great Gardening - Bees and Pollinators <a href="https://youtu.be/h8ICEf72ypU">https://youtu.be/h8ICEf72ypU</a> People, Plants and Pollinators   Nat Geo Live <a href="https://youtu.be/rmL_XTrPOMw">https://youtu.be/rmL_XTrPOMw</a> <b>Week 5 Plant List</b> <b>Reading:</b> Bee-utiful Landscapes: Building a Pollinator Garden; Butterfly Gardening in North Dakota <b>Biodiversity exercise:</b> See BlackBoard Page <b>Lab:</b>
6 Unit 6: Plant Identification and Hardiness zones <b>Quiz 5</b>	<b>Quiz 5</b> -Week 5 Plant List <b>Lecture:</b> Plant Hardiness Zones <b>Week 6 Plant List</b> <b>Reading:</b> Explore the NOAA website, <a href="https://www.noaa.gov/">https://www.noaa.gov/</a> <b>Hardiness Exercise:</b> See BlackBoard Page <b>Lab</b>
7 Review Week <b>Quiz 6</b>	<b>Quiz 6</b> -Week 6 Plant List <b>Lecture:</b> Review for Plant Identification Exam, <b>Plant Cultural Information Exam</b> <b>Master Plant List</b> <b>Lab Exam Review</b> <b>Video and Worksheet</b> "Killing Your Lawn and Opting for More Biodiversity" Webinar <a href="https://youtu.be/KG1_iR-sCLE">https://youtu.be/KG1_iR-sCLE</a> <b>Lab:</b> No lab
8 <b>Midterm Exam</b>	<b>Plant Identification Exam</b> <b>Lab Identification Exam</b>
9 Unit 7: Containers for herbaceous annuals and perennials	<b>Lecture:</b> Container Basics <b>Video:</b> Advanced Container Gardening <a href="https://youtu.be/SeTB5EEN64E">https://youtu.be/SeTB5EEN64E</a> <b>Container design and plant selection assignment:</b> See BlackBoard Page <b>Lab</b>
10 Unit 8: Green Infrastructure: Landscape features for stormwater management <b>Quiz 7</b>	<b>Quiz 7:</b> Week 9 Container Basics <b>Lecture:</b> Stormwater management in the landscape, Rain Gardens <b>Readings:</b> Landscape designs for Stormwater management; Rain Gardens- Capturing and Using the Rains of the Great Plains; Rain Gardens a how-to manual for homeowners <b>Raingarden design assignment:</b> See BlackBoard Page <b>Lab</b>
11 Unit 9: Annual bedding lesson and cultivar selection <b>Quiz 8</b>	<b>Quiz 8:</b> Stormwater management in the landscape, Rain Gardens <b>Lecture:</b> Annual bedding plants <b>Video:</b> Crop Scheduling of Bedding Plants <a href="https://youtu.be/2AHHDkgJL-o">https://youtu.be/2AHHDkgJL-o</a> <b>Reading:</b> Annual and Perennial Flowers for North Dakota-NDSU Extension <b>Annual Cultivar Selection Exercise:</b> See BlackBoard Page <b>Annual bed, herbaceous perennial bed, or mixed border assignment</b> <b>Lab</b>

Week/Unit	Topics and Assignments
12 Unit 10: Perennial plant lesson and cultivar selection <b>Quiz 9</b>	<b>Quiz 9:</b> Annual bedding plants <b>Lecture:</b> Perennial beds and mixed borders, <b>Video:</b> Gardening with Summer Perennials <a href="https://youtu.be/OYdFwn0qq6A">https://youtu.be/OYdFwn0qq6A</a> <b>Reading:</b> Planting Border Perennials <b>Perennial cultivar selection exercise:</b> See BlackBoard Page <b>Annual bed, herbaceous perennial bed, or mixed border assignment</b> <b>Lab</b>
13 Unit 11: Rock Gardens, Vines and Ground Cover <b>Quiz 10</b>	<b>Quiz 10:</b> Perennial beds and mixed borders <b>Lecture:</b> Rock Gardens, Vines and Ground Cover <b>Video:</b> "Rock Garden Nation" <a href="https://youtu.be/COUBkn16228">https://youtu.be/COUBkn16228</a> <b>Readings:</b> When America Was Crazy About Rock Gardens _ NPR History Dept. _ NPR Intro to Rock Gardening _ North American Rock Garden Society <b>Rock Garden/vines and ground cover design assignment:</b> See BlackBoard Page <b>Lab</b>
14 Unit 12: Integrated Pest Management <b>Quiz 11</b>	<b>Quiz 11:</b> Rock Gardens, Vines and Ground <b>Lecture:</b> Identification and control of common greenhouse and garden insects and diseases and IPM methods. <b>Video:</b> TBD <b>Reading:</b> TBD <b>Lab</b>
15 <b>Review Week</b> <b>Presentations:</b> <b>Quiz 12</b>	<b>Quiz 12-</b> Identification and control of common greenhouse and garden insects and diseases and IPM methods <b>Lecture: Review</b> Units 10-14 <b>This week you will be presenting one of your design assignments to the class. The presentation should be done in power point or some other presentation software and should include all the basic elements in your submission for that assignment.</b> <b>Lab Exam Review</b> Perennials vs Annuals
16 <b>Final Exams</b>	<b>Lecture Final Exam:</b> Weeks 10-14 <b>Lab Plant Identification Final Exam:</b> Perennials vs Annuals
Finals Week	<b>Design projects Due</b>

**Classroom Policies:** Show respect to all living things!!!

**Relationship to Campus Theme:**

All aspects of horticulture develop an appreciation for nature and the materials that Mother Nature and technology have provided for us. Because of this we are able to make the world a more beautiful place.

**Student Email Policy:**

Dakota College at Bottineau is increasingly dependent upon email as an official form of communication. A student's campus-assigned email address will be the only one recognized by the campus for official mailings. The liability for missing or not acting upon important information conveyed via campus email rests with the student.

**Academic Integrity:**

All students are expected to excel to the best of their ability. Students must adhere to the highest standards of academic integrity. Dishonesty in the classroom or laboratory and with assignments, quizzes and exams is a serious offense and is subject to disciplinary action by the instructor and college administration. For more information, refer to the student handbook.

**Plagiarism:** The strength Dakota College at Bottineau depends on academic and personal integrity. In this course, you must be honest and truthful. Plagiarism is the use of someone else's work, words, or ideas as if they were your own. Here are three reasons not to do it:

- By far the deepest consequence to plagiarizing is the detriment to your intellectual and moral development: you won't learn anything, and your ethics will be corrupted.
- Giving credit where it's due but adding your own reflection will get you higher grades than putting your name on someone else's work. In an academic context, it counts more to show your ideas in conversation than to try to present them as *sui generis*.
- Finally, all students are expected to adhere to the highest standards of academic integrity. Students must complete all work themselves. Cheating or plagiarism is a serious offense and is subject to disciplinary action by the instructor and the college administration. Please be sure to review the **Student Handbook**. **The consequences of plagiarism in this class depend on the level exhibited, but are at a minimum a failing grade on the assignment up to failing the class.**

### **Disabilities and Special Needs:**

If you have a disability for which you are or may be requesting an accommodation, you are encouraged to contact your instructor and the Learning Center (701-228-5479) as early as possible during the beginning of the semester.

### **Title IX:**

Dakota College at Bottineau (DCB) faculty are committed to helping create a safe learning environment for all students and for the college as a whole. If you have experienced any form of gender or sex-based discrimination or harassment, including non-consensual sexual intercourse, sexual harassment, relationship violence, or stalking, know that help and support are available.

DCB has staff members trained to support survivors in navigating campus life, accessing health and counseling services, providing academic and housing accommodations, and more. The College strongly encourages all students to report any such incidents to the College Title IX Coordinator.

Please be aware that all DCB employees (other than those designated as confidential resources such as advocates, counselors, clergy and healthcare providers) are required to report information about such discrimination and harassment to the College Title IX Coordinator. This means that if you tell a faculty member about a situation of sexual harassment or sexual violence, or other related misconduct, the faculty member must share that information with the College's Title IX Coordinator. If you wish to speak to a confidential employee who does not have this reporting responsibility, you can find a list of resources on the Title IX website. [www.dakotacollege.edu/student-life/safety/title-ix](http://www.dakotacollege.edu/student-life/safety/title-ix)