



**HORT 176 Cactus and Succulent ID**

**Number of credits: 2 credits**

**Fall Semester 2020**

**Course Description:**

This class will give students and opportunity to study one of the largest private cactus and succulent collections in the US at the International Peace Gardens near Dunseith, ND. Students will study the difference between cactus and succulents, become familiar with their names, and how to grow them in a conservatory, home or workplace.

**Pre-/Co-requisites:** None

**Course Objectives:**

Students will learn to identify, care for and propagate cactus and succulents so that they can assist with the care of and/or sale of them upon employment. Students will also be introduced to the industry use of interior and exterior design with succulents. Students will also be introduced to the specific plant structure and function mechanisms that set succulents apart from other plant species.

**Instructor:** Amy Koehler

**Office:** Molberg 27

**Office Hours:** By arrangement

**Phone:** 701-228-5605

**Email:** amy.koehler@dakotacollege.edu

**Lecture/Lab Schedule:**

TuTh 1:00pm-2:50pm

**This is an 8 week class. At least 1 week will be spent at the International Peace Garden Conservatory located in Dunseith, ND and the Canadian border.**

**Textbook(s):** supplemental readings will be provided

**Course Requirements:**

**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).**

Weekly lab assignments (10 pts each)

Class participation (10pts per class)

Weekly Assigned Supplement Material Readings (Provided) and Reflective Writings/discussions (10 pts each)

Weekly quizzes (20 pts each)

International Peace Garden Field Trip Participation (50 pts)

Final lab project (50 pts)

**Reflective Writing Assignments** will be assigned with prompts throughout the semester and graded based on a rubric that looks for addressing of prompt, depth of understanding, use of technical information, language use, and overall synthesis of content. This is a powerful learning tool as it

integrates experience with knowledge gathering and seeks to integrate the two to demonstrate higher level learning than what would be assessed in examinations.

**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 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.**

**Tentative Course Outline/Topics:**

Week/Unit	Topics and Assignments
1 Unit 1: Success With Succulents	<b>Lecture:</b> Success With Succulents <b>Reading:</b> MAJOR-FAMILIES-AND-GENERA-OF-SUCCULENT-PLANTS Agave as a model CAM crop system for a warming and drying world <b>Practicum</b>
2 Unit 2: Intro to Succulent Families	<b>Lecture:</b> Intro to Succulent Families <b>Week 1 Plant List</b> <b>Reading:</b> Busting Cactus Smugglers in the American West - The Atlantic California’s succulent smugglers_ plant poachers seed Asia’s desire for dudleya _ Post Magazine _ South China Morning Post <b>Practicum</b>
3 Unit 3: Cultivation and Maintenance <b>Quiz 1</b>	<b>Quiz 2-Week 1 Plant List</b> <b>Lecture:</b> Cultivation and Maintenance <b>Week 2 Plant List</b> <b>Reading:</b> TBD <b>Practicum</b>
4 Unit 4: Plant Identification and Native, introduced, invasive and adapted plants <b>Quiz 2</b>	<b>Quiz 2-Week 2 Plant List</b> <b>Lecture:</b> Cultivation and Maintenance <b>Week 2 Plant List</b> <b>Reading:</b> TBD <b>Practicum</b>

Week/Unit	Topics and Assignments
5 Unit 5: African Succulents for Indoors and Zone 3 Hardy Succulents <b>Quiz 3</b>	<b>Quiz 3</b> -Week 3 Plant List <b>Lecture:</b> African Succulents for Indoors and Zone 3 Hardy Succulents <b>Week 3 Plant List</b> <b>Reading:</b> TBD <b>Practicum</b>
6 Interior and Exterior Design with Succulents <b>Quiz 4</b>	<b>Quiz 4</b> -Week 3 Plant List <b>Lecture:</b> African Succulents for Indoors and Zone 3 Hardy Succulents <b>Succulent Design Project:</b> Due October 16th <b>Reading:</b> TBD <b>Practicum</b>
7 <b>Trip to International Peace Gardens October 7<sup>th</sup></b> No Class October 11th	<b><u>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).</u></b> We will leave campus at 12:30pm and return by 4pm. 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><u>you must let me know at least 2 weeks before the trip.</u></b>
8 <b>Plant Identification Exam</b>	<b>Plant Identification Exam</b> <b>Succulent Design Project:</b>

**CTE Competency/Department Learning Outcome(s):**

- Employ industry-specific skills in preparation for workplace readiness
- Combine general education and vocational skills curriculum
  - Horticulture LO 2. Develop human relation skills.

**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.

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

**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:**

According to the DCB Student Handbook, students are responsible for submitting their own work. Students who cooperate on oral or written examinations or work without authorization share the responsibility for violation of academic principles, and the students are subject to disciplinary action even when one of the students is not enrolled in the course where the violation occurred. The Code detailed in the Academic Honesty/Dishonesty section of the Student Handbook will serve as the guideline for cases where cheating, plagiarism or other academic improprieties have occurred.

**Disabilities or Special Needs:**

Students with disabilities or special needs (academic or otherwise) are encouraged to contact the instructor and Disability Support Services.

**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. 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 a student tells 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. Students wishing to speak to a confidential employee who does not have this reporting responsibility can find a list of resources on the DCB Title IX webpage.