

## Dakota College at Bottineau Course Syllabus

### HORT 176 Cactus and Succulent ID

**Number of credits: 2 credits**

**Fall Semester 2019**

**Course Description:**

Cacti and Succulent ID will give students a background and history of one of the largest private cactus and succulent collections in the US located at the International Peace Garden Dunseith, ND. Students will study the difference between Cactus and succulents, and become familiar with their names and what it takes to grow them in a Conservatory situation, in the home or in the 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 and Johannes Olwage (International Peace Gardens)

**Office:** Molberg 27 & International Peace Garden Conservatory Office

**Office Hours:** By arrangement

**Phone:** 701-228-5605

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

**Lecture/Lab Schedule:**

MW 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. While at the Peace Gardens the class will take place on Monday between 12:30am-4:00pm. Transportation will be provided by the Horticulture Department.**

**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>

Week/Unit	Topics and Assignments
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>
5 Unit 5: African Succulents for Indoors and Zone 3 Hardy Succulents <b>Quiz 3</b>	<b>Quiz 3-Week 3 Plant List</b> <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-Week 3 Plant List</b> <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 Trip to International Peace Gardens October 7 <sup>th</sup>  No Class October 11th	<b><u>Travel to the International Peace Garden. Mandatory attendance.</u></b>  <b><u>(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>you must let me know at least 2 weeks before the trip.</b>
8 <b>Plant Identification Exam</b>	<b>Plant Identification Exam</b> <b>Succulent Design Project:</b> Due October 16th

**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:**

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.

**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)