Saddleback College

Hort. 20
Introduction to Horticultural Science

Class Hours
Lecture 10:30A - 12:00P T TH BGS 115

Students enrolled in Hort 20-lecture class must enroll in one of the following labs.

Lab 12:00P - 03:00P T ATAS 228/Greenhouse
Lab 12:00P - 03:00P TH ATAS 228/Greenhouse

Office Hours
Monday through Thursday: By appointment TAS Building room 119
Phone: 582-4913
E-mail: zjohnson@saddleback.edu

Lecture Material

Johnson, Z. Website - http://www.saddleback.cc.ca.us/faculty/zjohnson

Reference Text: Western Garden Book

768 Pages 1171 Photos, 1380 illustrations. Perhaps the most referenced gardening guide in the United States, Western Garden Book is written for all gardeners, from novice to expert. It is packed with plant descriptions and gardening information—all from Sunset, the authority on Western gardening for more than 60 years.

University of California (Agriculture and Natural Resources) - Reference Books and Material: Check card catalog for call number.

Catalog Website: http://anrcatalog.ucdavis.edu

Dates to Remember - See Academic Calendar: http://www.saddleback.edu/ces

Reference Articles and Books

Gardening and landscape Plants

Crockett, James Underwood. Annuals 1972
Crockett, James Underwood. Lawns and Groundcovers 1972

**Plant Anatomy and Identification**


**Gardening and Landscape Plants**


**Plant Propagation**


**Landscape Design**


**Soils**


**Pests and Diseases**

Code of Conduct

A student may be disciplined for one or more of the following causes related to college activity.

1. Continued disruptive behavior, continued willful disobedience, profanity or vulgarity, or the open and persistent defiance of the authority of, or persistent abuse or district or college personnel.

2. Assault, battery, or any threat of force or violence a student, district or college personnel.

3. Willful misconduct resulting in injury or death to a student or college or district personnel or willful misconduct resulting in cutting, defacing, theft, or other injury to any real or personal property owned by the district, college personnel, or students in attendance at the college.

4. Willfully or persistent smoking in an area where smoking has been prohibited.

5. Cheating or plagiarizing in relation to a district or college course.

6. Disorderly, lewd, indecent, or obscene conduct on district-owned or controlled property.

7. The obstruction or disruption of the educational process.

8. Any other cause not previously listed which is identified as good cause.

9. All of the Student Code of Conduct have not been listed, so if you wish to learn more about the college's policies please refer to the student handbook.

Removal from class by Instructor

An instructor may remove a student from class for the day of the removal and the next class meeting for any of the causes set forth in the Code of Conduct, Article II. During the period of the removal, the student shall not be returned to the class from which he or she was removed without the concurrence of the instructor (Calif. Ed. Code, Section 76032).

Classroom Etiquette and Study Skills

1. Be prompt for class
2. Develop good listening skills
3. Leave your cellular phones or pagers in your car.
4. Complete homework before class.
5. Come to class prepared for the work to be done.
6. Familiarize yourself with the Saddleback College Student Code of Conduct.
7. Familiarize yourself with the Saddleback College Attendance Policy. (6 hrs)
8. Forgive me if I forget your name (8wks).

**How to Study** - [http://www.saddleback.cc.ca.us/faculty/zjohnson/HOWTOSTUDY/HowtoStudy.htm](http://www.saddleback.cc.ca.us/faculty/zjohnson/HOWTOSTUDY/HowtoStudy.htm)

**Extra Credit**

Thirty-five Extra Credit Points are possible in the class. You should keep in mind that extra credit points will not change a grade more than one full grade. Also, if you fail the laboratory and/or lecture, extra credit points will not change your failing grade.

*Other extra credit assignments will be available.*

**There are no make up tests.**

**Final Examine for Hort 20 classes Spring Semester:**
10:30A - 12:00P T-TH final exam: Thurs. May 16, 10:15A - 12:15P TAS 115

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<th>Lecture Topics and Dates</th>
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<td>April</td>
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<td>Date</td>
<td>Event</td>
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<tr>
<td>4/22</td>
<td>Watering/ Plant Pests</td>
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<td>4/29</td>
<td>Plant Pests &amp; Diseases</td>
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<td>5/6</td>
<td>Diseases</td>
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<tr>
<td>5/13</td>
<td>Diseases and Review</td>
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**Nurseries and Garden Shops**

a. Armstrong Garden Centers  
   Phone: 661-6666  
   Del Obispo Rd., SJC

b. Dana Point Nursery  
   Phone: 496-5137  
   34100 Coast Hwy.,  
   Dana Point

c. Greenthumb International Nursery  
   Phone: 837-3040  
   23782 Bridger Rd.,  
   El Toro.

**Plant Societies**

- Bromeliad Society, Inc.  
  P.O. Box 3279  
  Santa Monica, CA 90403

- Society of Plant Taxonomists  
  Botany Department  
  University of Washington  
  Seattle, Washington 98195

- Southern California Botanists  
  Rancho Santa Ana Botanic Garden  
  1500 North College Avenue  
  Claremont, California, 91711

**Botanical and Environmental Associations**

- Bromeliad Society  
  P.O. Box 12981  
  Gainesville, Fl 32604

- American Horticulture Society  
  Mount Vernon, Virginia 22121

- Botanical Society of America - Pacific Section  
  Department of Botany  
  University of Montana  
  Missoula, Montana 59801

- California Garden Club, Inc.  
  340 South San Pedro St.  
  Los Angeles, CA 90015

- California Native Plant Society  
  2490 Channing Way, Room 317  
  Berkeley, CA 94704

- Pacific Horticultural Foundation  
  Hall of Flowers  
  Golden Gate Park
San Francisco, CA 94122  
Southern California Academy of Science  
Natural History Museum of Los Angeles County  
900 Exposition Boulevard  
Los Angeles, CA 91711  
International Bulb Society  
P.O. Box 92136  
Pasadena, CA 91109

Publications of Botanical Interest  
Aliso  
Rancho Santa Ana Botanic Garden  
1500 North College Avenue  
Claremont, CA 91711

Crossonoma  
Southern California Botanist  
Rancho Santa Ana Botanic Garden  
Claremont, CA 91711

DEMONSTRATION GARDENS

a. Rogers Garden  
   Phone: 640-5800  
   San Joaquin Hill Rd.  
   Corona Del Mar, CA

b. Sherman Foundation  
   Phone: 673-2261  
   2647 E. Coast Hwy.  
   Corona Del Mar, CA

c. Huntington Library  
   Phone:(818) 405-2275  
   1151 Oxford  
   San Marino, CA

d. Capsers Regional Park  
   Phone: 728-3420  
   33401 Ortega Hwy.  
   San Juan Capistrano, CA

e. Los Angeles State and County  
   301 North Baldwin Ave.  
   Arcadia, CA 91006

f. Rancho Santa Ana Botanic Garden  
   Phone (909) 626-3922  
   1500 North College Avenue  
   Claremont, California 91711

Specialty Plant Nurseries

Abbey Gardens (Succulents)  
114 Toro Canyon Rd,  
Carpenteria, CA 93013

Beahm Epiphyllum Gardens  
2686 Paloma Street  
Pasadena, CA 91107

Bishop's Nursery (Geraniums)  
850 North Boulevard,  
Manhattan Beach, CA 90266

Bowman African Violet  
24911 West PCH.  
Malibu, CA 90265

Bolsa Chica Nursery (Subtropicals)  
16742 Bolsa Chica Rd.,  
Huntington Beach, CA 92649

Burkard Nurseries (bulbs)  
690 North Orange Grove Blvd.  
Pasadena, CA 91103

Dos Pueblos Orchid Co.  
Estree Nursery (macadamia)
Goleta
California, 93017

McCaskill Gardens (Calif. Iris)
25 South Michillinda
Pasadena, CA 91107

Theodore Payne Foundation
10459 Tuxford St.
Sun Valley, CA 91352

1288 Las Flores Drive
Carlsbad, CA 92008

Moorten Botanical Gardens (aloes)
1701 South Palm Canyon Drive
Palm Springs, CA 92262

Van Ness Water Gardens (water plants)
5212 N. Peck Rd.
El Monte, CA 91732
<table>
<thead>
<tr>
<th>WEEK</th>
<th>DATE</th>
<th>TOPICS</th>
<th>READINGS</th>
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<tbody>
<tr>
<td>1</td>
<td>1/14</td>
<td><strong>Introduction to the Horticulture</strong>&lt;br&gt;Laboratory room 228 is located in Technology and Applied Science Building (TAS) next to parking lot 5, college circle and the Student Service Building</td>
<td>Laboratory Exercise Notes: L1-L3</td>
</tr>
<tr>
<td>2</td>
<td>1/21</td>
<td><strong>Propagating vegetables and flowers for spring gardening.</strong> Students will prepare media for propagation seeds; prepare various soils for seed propagation; select and sow seeds for transplanting to garden and hanging basket.</td>
<td>Laboratory Exercise Notes: L4-L7</td>
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<td>3</td>
<td>1/28</td>
<td><strong>Propagating Stem Cuttings</strong>&lt;br&gt;Students will collect selected stem cuttings for laboratory exercises. Students will bring all plant material in a plastic bag with a wire tie sealing the top to secure any moisture inside.</td>
<td>Laboratory Exercise Notes: L8-L9</td>
</tr>
<tr>
<td>4</td>
<td>2/4</td>
<td><strong>Preparing garden plots</strong>&lt;br&gt;Students will be prepared to remove weeds, vegetables and other objects from the garden plots. Be sure to wear work clothes, otherwise you may ruin your good ones. If you wish you may bring your own garden tools and gloves.</td>
<td>Laboratory Exercise Notes</td>
</tr>
<tr>
<td>5</td>
<td>2/11</td>
<td><strong>Preparing garden plots</strong>&lt;br&gt;Students will be prepared to remove weeds, vegetables and other objects from the garden plots. Be sure to wear work clothes, otherwise you may ruin your good ones. If you wish you may bring your own garden tools and gloves.</td>
<td>Laboratory Exercise Notes</td>
</tr>
<tr>
<td>6</td>
<td>2/18</td>
<td><strong>Transplanting seedlings</strong>&lt;br&gt;Students will use 2 veg., 2 herbs, and 2 flowers in a spring garden.</td>
<td>Laboratory Exercise Notes: L10-L16</td>
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<td>7</td>
<td>2/25</td>
<td><strong>Plant Walk</strong>&lt;br&gt;Students will be introduced to common landscape plants and learn their landscape values.</td>
<td>Laboratory Exercise Notes:</td>
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<tr>
<td>8</td>
<td>3/4</td>
<td><strong>Hanging Basket Construction</strong>&lt;br&gt;Students are expected to bring plant material, wire baskets, and basket hanger.</td>
<td>Notes</td>
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<tr>
<td>Date</td>
<td>Event</td>
<td>Notes</td>
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<tr>
<td>3/11</td>
<td>Botanical Project</td>
<td>Independent assignment</td>
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<td>3/17-23</td>
<td>Spring Recess - No classes</td>
<td>Bio 176 Saguaro Nat’l Park</td>
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<td>3/25</td>
<td>Field trip to Sherman Foundation in Corona Del Mar</td>
<td>Laboratory Exercise Notes: L29-L34</td>
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<td>Laboratory classes will meet at the entrance gate at 1:00 PM on the scheduled date.</td>
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<td>4/1</td>
<td>Pruning techniques</td>
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<td>4/8</td>
<td>Weed Control</td>
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<td>4/15</td>
<td>Field Trip (TBA)</td>
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<td>4/22</td>
<td>Physical Makeup of Soil</td>
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<td>4/29</td>
<td>Garden and weed control</td>
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<td>4/29</td>
<td>Plant Parts: Student will bring a collection of leaves, stems, flowers and fruit bodies to the lab. to learn how these plant parts contribute to the health and growth of the ornamental and vegetable plants.</td>
<td>Laboratory Exercise Notes: L25-L28</td>
<td></td>
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<tr>
<td>5/6</td>
<td>Garden and Greenhouse clean up. Students will harvest vegetables and flowers from garden plots. Propagated material will be removed from the greenhouse.</td>
<td>Laboratory Exercise Notes:</td>
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<tr>
<td>5/13</td>
<td>No laboratory</td>
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<tr>
<td>5/6</td>
<td>Score review. Botanical Project material and summary</td>
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Special Topics:
Botanical Centers:
You will visit two botanical centers in the Southern California area. At the center, you will observe the different plants displayed. To obtain full credit, you will either obtain a brochure or photograph from each center. You will present both centers on May 6 or 8 at the score review meeting.
LOWER CAMPUS PARKING - Parking inside the Horticulture Unit is not allowed to unload and load laboratory supplies. If you park inside the fenced area, you are subject to a parking ticket by the Campus Safety Office. Please refer to a campus map for the closest parking area outside the Horticulture Unit and if you have any other questions about parking spaces or the College's parking policies, please contact the Campus Safety Office by dialing 582-4585.

Grading:

The Lecture Grade is based on 3 examinees, each exam is 50 points. All tests are scan-tron format, using an 882 form. Questions are from lecture notes and lab notes.

The Laboratory Grade is based on attendance and laboratory assignments. If a student is absent for more than three classes, they their grade will drop one full grade. Extra credit will not change a grade drop.

In order to pass the class, a student must pass the laboratory.

The class grade is based on a lecture and laboratory point curve obtained by student(s) in the class. The top score is multiplied by 90, 80, 70, etc. and a percentage scale is produced. Those students with an accumulative score between 100 and 90 percent will receive an "A", and those between 89 and 80 percent, will receive a "B", and so on.

Directions to Selected Botanical Centers

Sherman Foundation and Library
Date: 3/25 & 3/27
Meeting Time: 1:00 PM
Suggested Directions: Take I-5 north to I-405, and continue north until University Dr. At the end of the offramp turn left and drive on University Dr. until you reach the MacArthur Blvd. overpass. At the signal under the overpass, turn left to drive onto MacArthur Blvd. Continue on MacArthur Blvd. until you reach PCH. At the signal turn left and drive a half block to Dahlia or Fern Leaf and make another left and continue to the end of the lot where you can park your car. Walk to the entrance at the front on PCH and meet at the sun garden fountain.

R. Casper Regional Park
Directions: Take I-5 Hwy to Ortega Hwy (Hwy 74) and drive inland approximately 7 miles east of I-5 on Hwy 74 (Ortega Hwy). Wait either in your car at the entrance.