CR COLLEGE OF THE REDWOODS

Syllabus for Nursery Practices (AG-27) (class)

Course Information

Semester & Year: Fall 2021
Course ID & Section #: AG-27-E1614
Instructor: Alan Rodriguez
Day/Time of required meetings:
Lecture Discussion: M 1:15 PM - 3:20 PM
Lecture Location: Room: AT-108
Lab: W 1:15 PM - 4:25 PM
Lab Location: Horticulture Greenhouse (GH100)
Course units: 3.00 Credits

Instructor Contact Information

Office Location: TBD
Online Location: **Zoom Link**
Office Hours: By Appointment Via Zoom
Phone Number: Alan Rodriguez - (510) 552-7769
Email Address: alan-rodriguez@redwoods.edu

Catalog Description

A course of study of the production and cultural care of commercial container grown and field grown nursery operations. Among the topics covered are: crop scheduling, growing media, watering, fertilization, lighting, pests, temperature control, post harvest handling, marketing and sales.

Course Student Learning Outcomes

1. Compare and contrast old and new nursery industry practices to assess changes and advances. (LEC)
2. Identify basic marketing strategies used in the nursery industry. (LEC)
3. Apply proper cultural practices and grow nursery crops. Practices include: planting and potting up, scheduling crops, soil mixes and pasteurization, fertilizing and calculations , pest control, pinching, pruning, shaping and watering. (LAB)

Accessibility

College of the Redwoods is committed to making reasonable accommodations for qualified students with disabilities. If you have a disability or believe you might benefit from disability-related services and accommodations, please contact your instructor or Disability Services and Programs for Students (DSPS). Students may make requests for alternative media by contacting DSPS based on their campus location:

- Eureka: 707-476-4280, student services building, 1st floor
- Del Norte: 707-465-2324, main building near library
- Klamath-Trinity: 530-625-4821 Ext 103

If you are taking online classes DSPS will email approved accommodations for distance education classes to your instructor. In the case of face-to-face instruction, please present your written accommodation request to your instructor at least one week before the needed accommodation so that necessary arrangements can be made. Last minute arrangements or post-test adjustments usually cannot be accommodated.

Prerequisites

ENGL-102 Developing Reading and Writing
(OR) ENGL-150 Precollegiate Reading and Writing

Recommended Textbook

Greenhouse Operation & Management, 7th edition, by Paul V. Nelson. 2012 Prentice Hall, N.J.
(ISBN-13: 978-0-13-243936-7)

This course including its lecture and exam material will be based on Greenhouse Operation and Management 7th edition by Paul Nelson.

Readings will be assigned weekly, they are not required. Readings are recommended since they will aid in discussion and preparation for assignments, quizzes and tests.

Supplies

You will need a lab notebook, pen, and calculator.

Exams

Exams will be based on both lecture and lab material.
Exams will consist of multiple choice, true/false, short answer, and long answer questions.
The final exam will be cumulative.

Lab Reports

Paperwhite Narcissus Lab Report
- ● Please refer to the Paperwhite Narcissus Lab Report document on Canvas for details on the assignment. The Paperwhite Narcissus Lab Report will be explained during class discussion.

Microgreen Lab Report
- ● Please refer to the Microgreen Lab Report document on canvas for details on the assignment. The Microgreen Lab Report will be explained during class discussion.

Lettuce Lab Report
- • Please refer to the Lettuce Lab Report document on canvas for details on the assignment. The Lettuce Lab Report will be explained during class discussion.

Evaluation & Grading Policy

Quizzes = 250 Points ([11 Quizzes - 1 Dropped Quiz] x 25 Points per Quiz) = 25.0% of Total Grade
Mid Term = 200 Points = 20.0% of Total Grade
Final = 250 Points = 25.0% of Total Grade
Lab Reports = 202 Points (92 Points - Paperwhite Narcissus Lab, 50 Points - Microgreen Lab, 60 points – Lettuce Yield Lab) = 20.2% of Total Grade

Participation = 98 Points (14 Weeks x Points Per Week [1 Point for Lecture Discussion Attendance, 1 Point for Lab Attendance, 2 Points for Lecture Participation, 3 points for Lab Participation]) = 9.8% of Total Grade

Schedule

WEEK	OVERVIEW	LECTURE TOPIC	LAB ACTIVITY	TEXTBOOK
1	Lecture: 8/23 Lab: 8/25	-Syllabus -Substrate	-Greenhouse tour & rules -Pasteurizing soil media	Chapters 6 and 7
2	Lecture: 8/30 Lab: 9/1	-Essential Nutrients - Carbon Dioxide Fertilization	-Mix soil media and soil porosity **-Microgreen Lab Setup**	Chapter 9 and 10
3	Lecture & Quiz: 9/6 Lab: 9/8	-Watering	-Fertilizer (ppm + calculations) **-Record Microgreen Lab Data** -Water quality (EC/pH)	
4	Lecture & Quiz: 9/13 Lab: 9/15	-Regulation of Plant Growth	-Permanent wilting point demonstration **-Record Microgreen Lab Data** -Volumetric water content calculations	Chapter 8

5	Lecture & Quiz: 9/20 Lab: 9/22	-Plant Pests	-Pinching/pruning Apple Trees -Shifting up **-Set up Narcissus study**	Chapter 12
6	Lecture & Quiz: 9/27 Lab: 9/29	-Plant Diseases	-Pest ID **-Record Narcissus Data** **-MICROGREEN LAB REPORT DUE**	Chapter 13
7	Lecture & Quiz: 10/4 Lab: 10/6	-Review	-Pathogen ID **-Record Narcissus Data**	Chapter 14
8	Lecture: 10/11 Lab: 10/13	**MIDTERM**	Field Trip	
9	Lecture: 10/18 Lab: 10/20	-Light and Temperature	**-Record Narcissus Data** - plant hormone demonstration - light demonstration - spacing demonstration - temperature demonstration - irrigation demonstration	Chapter 11
10	Lecture & Quiz: 10/25 Lab: 10/27	-Site Selection	-Greenhouse Temperature Control Operation - Hydroponic set up **-Record Narcissus Data**	Chapter 2 and 3
11	Lecture & Quiz: 11/1 Lab: 11/3	-Site Organization and Development	-Field Trip/Movie (TBD) **-Record Narcissus Data**	Chapter 4 and 5
12	Lecture & Quiz: 11/8 Lab: 11/10	-Nursery Storage Facilities and Shipping	-Labeling plants **-Record Narcissus Data**	Chapter 15

			- Excel demonstration and preparation for plant sale **- Set Up Lettuce yield Experiment**	
13	Lecture & Quiz: 11/15 Lab: 11/17	-Marketing	**-Record lettuce yield data** **-Record Narcissus data** -Plant Sale	Chapter 16
14	Lecture: None Lab: None	Thanksgiving Break	Thanksgiving Break	
15	Lecture: 11/29 Lab & Quiz: 12/1	-Production Centers, Nursery Classification and Functions -Laws and Regulations	**-Record lettuce yield data** **-NARCISSUS LAB REPORT DUE**	Chapter 1
16	Lecture: 12/6 Lab & Quiz: 12/8	Innovation and the future of greenhouse production	**-Record lettuce yield experiment** **-Lettuce Yield Experiment Due 12/11/21**	Chapter 17
17	**FINAL EXAM**	**TAKE HOME FINAL EXAM DUE 12/15 3:00 PM**		

Student Support

Good information and clear communication about your needs will help you be successful. Please let your instructor know about any specific challenges or technology limitations that might affect your participation in class. College of the Redwoods wants every student to be successful.

Evaluation & Grading Policy

[Should include info such as final grade calculations, rubrics, late assignment policy, and other grading practices]

Admissions deadlines & enrollment policies

Fall 2021 Dates
- *Classes begin: 8/21/21*
- *Last day to add a class: 8/27/21*

- *Last day to drop without a W and receive a refund: 9/03/21*
- *Labor Day Holiday (all campuses closed): 09/06/21*
- *Census date: 9/07/21 or 20% into class duration*
- *Last day to petition to graduate or apply for certificate: 10/28/21*
- *Last day for student-initiated W (no refund): 10/29/21*
- *Last day for faculty-initiated W (no refund): 10/29/21*
- *Veteran's Day (all campuses closed): 11/11/21*
- *Fall Break (no classes): 11/22/21 – 11/26/21*
- *Thanksgiving Holiday (all campuses closed): 11/24/21 – 11/26/21*
- *Final examinations: 12/11/21 – 12/17/21*
- *Last day to petition to file P/NP option: 12/17/21*
- *Semester ends: 12/17/21*
- *Grades available for transcript release: approximately 01/07/22*

Academic dishonesty

In the academic community, the high value placed on truth implies a corresponding intolerance of scholastic dishonesty. In cases involving academic dishonesty, determination of the grade and of the student's status in the course is left primarily to the discretion of the faculty member. In such cases, where the instructor determines that a student has demonstrated academic dishonesty, the student may receive a failing grade for the assignment and/or exam and may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the College Catalog and on the College of the Redwoods website.

Disruptive behavior

Student behavior or speech that disrupts the instructional setting will not be tolerated. Disruptive conduct may include, but is not limited to: unwarranted interruptions; failure to adhere to instructor's directions; vulgar or obscene language; slurs or other forms of intimidation; and physically or verbally abusive behavior. In such cases where the instructor determines that a student has disrupted the educational process, a disruptive student may be temporarily removed from class. In addition, the student may be reported to the Chief Student Services Officer or designee. The Student Code of Conduct (AP 5500) is available on the College of the Redwoods website. Additional information about the rights and responsibilities of students, Board policies, and administrative procedures is located in the College Catalog and on the College of the Redwoods website.

Inclusive Language in the Classroom

College of the Redwoods aspires to create a learning environment in which all people feel comfortable in contributing their perspectives to classroom discussions. It therefore encourages instructors and students to use language that is inclusive and respectful.

Setting Your Preferred Name in Canvas

Students have the ability to have an alternate first name and pronouns to appear in Canvas. Contact Admissions & Records to request a change to your preferred first name and pronoun. Your Preferred Name will only be listed in Canvas. This does not change your legal name in our records. See the Student Information Update form.

Canvas Information

If using Canvas, include navigation instructions, tech support information, what Canvas is used for, and your expectation for how regularly students should check Canvas for your class.
Log into Canvas at https://redwoods.instructure.com
Password is your 8 digit birth date
For tech help, email its@redwoods.edu or call 707-476-4160
Canvas Help for students: https://webapps.redwoods.edu/tutorial/
Canvas online orientation workshop: Canvas Student Orientation Course (instructure.com)

Community College Student Health and Wellness

Resources, tools, and trainings regarding health, mental health, wellness, basic needs and more designed for California community college students, faculty and staff are available on the California Community Colleges Health & Wellness website.

Wellness Central is a free online health and wellness resource that is available 24/7 in your space at your pace.

Students seeking to request a counseling appointment for academic advising or general counseling can email counseling@redwoods.edu.

Emergency procedures / Everbridge

College of the Redwoods has implemented an emergency alert system called Everbridge. In the event of an emergency on campus you will receive an alert through your personal email and/or phones. Registration is not necessary in order to receive emergency alerts. Check to make sure your contact information is up-to-date by logging into WebAdvisor https://webadvisor.redwoods.edu and selecting 'Students' then 'Academic Profile' then 'Current Information Update.'

Please contact Public Safety at 707-476-4112 or security@redwoods.edu if you have any questions. For more information see the Redwoods Public Safety Page.

In an emergency that requires an evacuation of the building anywhere in the District:
- Be aware of all marked exits from your area and building
- Once outside, move to the nearest evacuation point outside your building
- Keep streets and walkways clear for emergency vehicles and personnel

Do not leave campus, unless it has been deemed safe by the campus authorities.

Del Norte Campus Emergency Procedures

Please review the Crescent City campus emergency map for campus evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information, see the Redwoods Public Safety Page.

Eureka Campus Emergency Procedures

Please review the campus emergency map for evacuation sites, including the closest site to this classroom (posted by the exit of each room). For more information on Public Safety go to the Redwoods Public Safety Page It is the responsibility of College of the Redwoods to protect life and property from the effects of emergencies within its own jurisdiction.

In the event of an emergency:

1. Evaluate the impact the emergency has on your activity/operation and take appropriate action.
2. Dial 911, to notify local agency support such as law enforcement or fire services.

3. Notify Public Safety 707-476-4111 and inform them of the situation, with as much relevant information as possible.
4. Public Safety shall relay threat information, warnings, and alerts through the Everbridge emergency alert system, Public address system, and when possible, updates on the college website, to ensure the school community is notified.
5. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet, (evacuation to a safe zone, shelter in place, lockdown, assist others if possible, cooperate with First Responders, etc.).
6. If safe to do so, notify key administrators, departments, and personnel.
7. Do not leave campus, unless it is necessary to preserve life and/or has been deemed safe by the person in command.

Klamath Trinity Campus Emergency Procedures

Please review the responsibilities of, and procedures used by, the College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to communicate to faculty, staff, students and the general public during an emergency. It is the responsibility of College of the Redwoods, Klamath-Trinity Instructional Site (KTIS) to protect life and property from the effects of emergency situations within its own jurisdiction.

1. In the event of an emergency, communication shall be the responsibility of the district employees on scene.
   a. Dial 911, to notify local agency support such as law enforcement or fire services.
   b. If safe to do so, notify key administrators, departments, and personnel.
   c. If safe to do so, personnel shall relay threat information, warnings, to ensure the school community is notified.
   d. Contact 530-625-4821 to notify of situation.
   e. Contact Hoopa Tribal Education Administration office   530-625-4413
   f. Notify Public Safety 707-476-4111.
2. In the event of an emergency, the responsible district employee on scene will:
   a. Follow established procedures for the specific emergency as outlined in the College of the Redwoods Emergency Procedure Booklet.
   b. Lock all doors and turn off lights if in lockdown due to an active shooter or similar emergency.
   c. Close all window curtains.
   d. Get all inside to safe location Kitchen area is best internal location.
   e. If a police officer or higher official arrives, they will assume command.
   f. Wait until notice of all is clear before unlocking doors.
   g. If safe to do so, move to the nearest evacuation point outside building (Pooky's Park), directly behind the Hoopa Tribal Education Building.
   h. Do not leave site, unless it has been deemed safe by the person in command. Student Support Services (required for online classes)

Student Support Services

The following online resources are available to support your success as a student:
- CR-Online (Comprehensive information for online students)
- Library Articles & Databases
- Canvas help and tutorials
- Online Student Handbook

Counseling offers assistance to students in need of professional counseling services such as crisis counseling.

Learning Resource Center includes the following resources for students

- Academic Support Center for instructional support, tutoring, learning resources, and proctored exams. Includes the Math Lab & Drop-in Writing Center

- Library Services to promote information literacy and provide organized information resources.
- Multicultural & Diversity Center

Special programs are also available for eligible students include

- Extended Opportunity Programs & Services (EOPS) provides services to eligible income disadvantaged students including: textbook award, career academic and personal counseling, school supplies, transportation assistance, tutoring, laptop, calculator and textbook loans, priority registration, graduation cap and gown, workshops, and more!
- The TRiO Student Success Program provides eligible students with a variety of services including trips to 4-year universities, career assessments, and peer mentoring. Students can apply for the program in Eureka or in Del Norte
- The Veteran's Resource Center supports and facilitates academic success for Active Duty Military, Veterans and Dependents attending CR through relational advising, mentorship, transitional assistance, and coordination of military and Veteran-specific resources.
- Klamath-Trinity students can contact the CR KT Office for specific information about student support services at 530-625-4821