

Fruit Production

11:776:341 (3 credits)

Spring Semester (odd years)

Hybrid course: 50% on-line; 50% in-class

CONTACT INFORMATION

Instructor: Dr. Edward Durner
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Office Hours: by arrangement

COURSE DESCRIPTION

The growing of small fruits and grapes. Varieties, fruit-growing systems, and harvesting methods involved in grapes, strawberries, blueberries, brambles, and cranberries.

COURSE WEBSITE, RESOURCES AND MATERIALS

- Course website: eCollege
- Recommended text (not required): Westwood MN. 2009. Temperate-Zone Pomology: Physiology and Culture, 3rd. Timber Press
- Materials will be supplied as PDF files on the class website

PREREQUISITE

Required: 01:119:115 General Biology OR equivalent OR 11:776:242 Plant Science

Also preferred: 11:776:210 Principles of Botany or 11:776:211 Introduction to Horticulture

COURSE LEARNING GOALS

(Link to Plant Biology Undergraduate Program Goals: <http://plantbiology.rutgers.edu/undergrad/plantbiology/>)

By the end of this course, the student will be able to:

1. Comprehend and demonstrate the basic horticulture involved in successful small-scale fruit production (addresses program goal 1)
2. Modify the plant environment to maximize productivity and fruit quality (addresses program goal 1)
3. Recognize the role fruits play in human health and nutrition (addresses program goal 2)

ASSIGNMENTS/RESPONSIBILITIES AND ASSESSMENT

Grading

- Attendance 10%
- Three take-home exams (25% each) 75%
- Final exam (cumulative) 15%

Grades will be classified based on Rutgers approved system: A, B+, B, C+, C, D, and F.

Learning goals assessment: Specific questions on take-home exams and comprehensive final will be used to assess student knowledge of all course learning goals. The percentage score on these assessments will determine the level of mastery: >90% outstanding; 80-89% good; 70-70% satisfactory; <69% unsatisfactory.

ABSENCE POLICY

Students unable to attend may use the University absence reporting website (<https://sims.rutgers.edu/ssra/>) to indicate the date and reason for the absence. An e-mail is automatically sent to the instructor.

COURSE TOPICS

This course will combine a topical as well as crop by crop approach to fruit production with an emphasis on small-scale, homeowner oriented production. Crops covered will include strawberries, brambles (raspberries and blackberries), highbush blueberries, and an introduction to grapes. Topics will include plant growth and development related to fruit production; flowering, fruit growth and senescence; water, light, temperature, and soils in relation to fruit production; greenhouse possibilities; plant sources, planting, pruning, and training; from harvest to market; post-harvest physiology; and human nutrition, phytonutrients, and nutraceuticals related to fruit.

FINAL EXAM/PAPER DATE AND TIME

The final exam is comprehensive and constitutes 15% of the total grade.

The Online Final exam Schedule: <http://finalexams.rutgers.edu/>

ACCOMODATIONS FOR STUDENTS WITH DISABILITIES

Please follow the procedures outlined at <https://ods.rutgers.edu/students/registration-form>. Full policies and procedures are at <https://ods.rutgers.edu/>

ACADEMIC INTEGRITY

The university's policy on Academic Integrity is available at <http://academicintegrity.rutgers.edu/>

The principles of academic integrity require that a student:

- Properly acknowledge and cite all use of the ideas, results, or words of others.

- Properly acknowledge all contributors to a given piece of work.
- Make sure that all work submitted as his or her own in a course or other academic activity is produced without the aid of impermissible materials or impermissible collaboration.
- Obtain all data or results by ethical means and report them accurately without suppressing any results inconsistent with his or her interpretation or conclusions.
- Treat all other students in an ethical manner, respecting their integrity and right to pursue their educational goals without interference. This requires that a student neither facilitate academic dishonesty by others nor obstruct their academic progress.
- Uphold the canons of the ethical or professional code of the profession for which he or she is preparing.

Adherence to these principles is necessary in order to ensure that:

- Everyone is given proper credit for his or her ideas, words, results, and other scholarly accomplishments.
- All student work is fairly evaluated and no student has an inappropriate advantage over others.
- The academic and ethical development of all students is fostered.
- The reputation of the University for integrity in its teaching, research, and scholarship is maintained and enhanced.

Failure to uphold these principles of academic integrity threatens both the reputation of the University and the value of the degrees awarded to its students. Every member of the University community therefore bears a responsibility for ensuring that the highest standards of academic integrity are upheld.

STUDENT WELLNESS SERVICES

Just In Case Web App <http://codu.co/cee05e>

Access helpful mental health information and resources for yourself or a friend in a mental health crisis on your smartphone or tablet and easily contact CAPS or RUPD.

Counseling, ADAP & Psychiatric Services (CAPS)

(848) 932-7884 / 17 Senior Street, New Brunswick, NJ 08901 / www.rhscaps.rutgers.edu/

CAPS is a University mental health support service that includes counseling, alcohol and other drug assistance, and psychiatric services staffed by a team of professional within Rutgers Health services to support students' efforts to succeed at Rutgers University. CAPS offers a variety of services that include: individual therapy, group therapy and workshops, crisis intervention, referral to specialists in the community and consultation and collaboration with campus partners.

Violence Prevention & Victim Assistance (VPVA)

(848) 932-1181 / 3 Bartlett Street, New Brunswick, NJ 08901 / www.vpva.rutgers.edu/

The Office for Violence Prevention and Victim Assistance provides confidential crisis intervention, counseling and advocacy for victims of sexual and relationship violence and stalking to students, staff and faculty. To reach staff during office hours when the university is open or to reach an advocate after hours, call 848-932-1181.

Disability Services

(848) 445-6800 / Lucy Stone Hall, Suite A145, Livingston Campus, 54 Joyce Kilmer Avenue, Piscataway, NJ 08854 / <https://ods.rutgers.edu/>

Rutgers University welcomes students with disabilities into all of the University's educational programs. In order to receive consideration for reasonable accommodations, a student with a disability must contact the appropriate disability services office at the campus where you are officially enrolled, participate in an intake interview, and provide documentation: <https://ods.rutgers.edu/students/documentation-guidelines>. If the documentation supports your request for reasonable accommodations, your campus's disability services office will provide you with a Letter of Accommodations. Please share this letter with your instructors and discuss the accommodations with them as early in your courses as possible. To begin this process, please complete the Registration form on the ODS web site at: <https://ods.rutgers.edu/students/registration-form>.

Scarlet Listeners

(732) 247-5555 / <http://www.scarletlisteners.com/>

Free and confidential peer counseling and referral hotline, providing a comforting and supportive safe space.