DESCRIPTION
This course is designed to teach applied and crop production practices for citrus and dates, and the plant physiological basis for those practices.

LOCATION & TIME
Yuma Valley Agriculture Center, 6425 W. 8th Street, Thursday 5:00 to 7:30 PM

INSTRUCTOR:
Glenn C. Wright, Associate Professor, School of Plant Sciences, University of Arizona

Phone: (928) 782-5876
Cell: (928) -502-0857
Fax: (928) 782-1940
E-mail gwright@ag.arizona.edu.

OFFICE HOURS: Consultations can be arranged either before or after class, or by appointment.

COURSE OBJECTIVES:
This three credit hour course is intended to provide an overview of citrus and date culture in Arizona. A brief introduction to the genetics, taxonomy and botany of the crops and their history will be followed by an overview of established and promising cultivars and rootstocks where appropriate. Production practices will be covered in detail, including site selection, propagation, planting training, pruning, nutrition, water relations, pest control, harvesting, worldwide production, economics and marketing. Emphasis will be placed not only on the practical aspects of each cultural practice, but also on the biological basis for the practice. Students will be able to utilize sound plant biological knowledge when decision making.

TEXT:
None, but you will be responsible for any outside reading assigned in class.

ASSIGNMENTS AND GRADING:
The course will have four regular examinations, 1 poster presentation and ten short quizzes. There is no final exam. There are 600 points total. The weighting is as follows:

4 regular take-home examinations @ 100 pts. each 400 pts.
PDF Poster presentation 100 pts.
Topic – 10 pts.
Outline and Sources – 20 pts.
Completed – 70 pts.
Quizzes (13 at 10 pts each, lowest three will be dropped) 100 pts
Grades:
90 - 100%   A
80 – 89%    B
70 - 79%    C
60 - 69%    D
0 - 59%     E

A student’s educational records (or personally identifiable information contained therein), other than directory information, shall not be accessible or released without the prior consent of the student unless authorized by law. For more information, see University of Arizona Policies and Procedures as stated at: http://www.registrar.arizona.edu/ferpa/contents.htm

Late work will not be accepted unless prior arrangements have been made. Makeup exams will be at the instructor’s discretion.

All students are expected to accomplish and perform their own work individually unless expressed otherwise by the instructor. Any student participating in acts of academic dishonesty—including, but not limited to, copying the work of other students, using unauthorized “crib notes”, plagiarism, stealing tests, or forging the instructor’s signature—will be subject to the procedures and consequences outlined the University of Arizona Academic Code of Integrity as stated at: http://deanofstudents.arizona.edu/codeofacademicintegrity

COURSE NOTES: Copyright of lectures and course materials is held by the instructor. This includes student notes or summaries that substantially reflect lectures and course materials. These materials are made available only for personal use by students. Students may not distribute or reproduce the materials for commercial purposes without the express written consent of the instructor. Students may share notes on an individual basis for personal use. Violations of the copyright may result in course sanctions and violate the Code of Academic Integrity

ATTENDANCE: Attendance at all sessions is strongly encouraged.

Withdrawal Policy: If a student is unable to attend the course or must drop the course for any reason, it will be the responsibility of the student to withdraw from the course before the withdrawal deadline (see Tanya Hodges for deadline)

SPECIAL NEEDS Students with special needs should notify the instructor and Tanya Hodges, Coordinator of the University of Arizona Academic Outreach Programs in Yuma. All reasonable accommodations will be made to assist anyone with a special need. It is the responsibility of the student to make the instructor and coordinator aware of the need for special accommodations at the beginning of the semester.
## COURSE OUTLINE
(Note: Lecture topics and exams upon which you will be tested on those topics are linked by color)

<table>
<thead>
<tr>
<th>Date</th>
<th>Lecture Subjects and Examinations</th>
<th>Quizzes and Poster Due Dates</th>
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<tbody>
<tr>
<td>January 10</td>
<td>Introduction and History of Citrus Production</td>
<td>Quiz 1</td>
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<td>January 17</td>
<td><strong>Field Trip to Citrus Packinghouse</strong>, Lemon and Lime Cultivars</td>
<td>Quiz 2</td>
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<td>January 24</td>
<td>Citrus Taxonomy, Botany and Growth, Mandarin Cultivars</td>
<td>Quiz 3</td>
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<td>January 31</td>
<td>Effect of Climate on Citrus, Orange Cultivars</td>
<td>Quiz 4</td>
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<td>February 7</td>
<td>EXAM 1 (<strong>Take-home, due Feb. 14</strong>), Grapefruit and Pummelo cultivars, Propagation, Rootstock and Nursery</td>
<td>Quiz 5, Poster Topic Due</td>
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<tr>
<td>February 14</td>
<td>Site Selection, and Planting of Citrus, Citrus Nutrition and Fertilization, Irrigation and Water Relations</td>
<td>Exam 1 Due</td>
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<tr>
<td>February 21</td>
<td>Plant Growth Regulators, Orchard Floor Management, Citrus Pruning, Frost Protection</td>
<td>Quiz 6</td>
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<tr>
<td>February 28</td>
<td>Citrus Insects and Diseases</td>
<td>Quiz 7</td>
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<tr>
<td>March 7</td>
<td>EXAM 2 (<strong>Take-home, due Mar. 14</strong>), Citrus Diseases and HLB Management</td>
<td>Quiz 8</td>
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<tr>
<td>March 14</td>
<td>Free Day</td>
<td>Exam 2 Due</td>
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<td>March 21</td>
<td>Harvesting, Packing, Processing, Postharvest Quality</td>
<td>Quiz 9</td>
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<td>March 28</td>
<td><strong>Citrus Orchard Visit and Practical Application</strong>&lt;br&gt;Worldwide Citrus Production, Citrus Marketing, Economics and Future Trends affecting Citrus Production in Arizona and the US&lt;br&gt;EXAM 3 (<strong>Take-home, due April 11</strong>)</td>
<td>Quiz 10</td>
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<td>April 4</td>
<td>SPRING BREAK</td>
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<td>April 11</td>
<td>History of Date Production</td>
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<td>April 18</td>
<td>Date Varieties, Taxonomy, Growth, Propagation, Pollination, Thinning</td>
<td>Quiz 11</td>
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<td>April 25</td>
<td><strong>Date Garden Visit</strong>&lt;br&gt;Date Fertilization, Irrigation, Insects and Diseases</td>
<td>Quiz 12</td>
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<tr>
<td>May 2</td>
<td>EXAM 4 (<strong>Take-home, Due Wednesday, May 9th at 5:00 PM</strong>), Harvest, Packing and Marketing&lt;br&gt;Poster Presentations</td>
<td>Quiz 13</td>
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<td>May 9</td>
<td>Poster Presentations</td>
<td>Exam 4 Due</td>
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</tbody>
</table>

Course content is subject to change with advance notice, as deemed appropriate by instructor.

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### SELECTED BIBLIOGRAPHY

**CITRUS**


Sinclair, W.B. 1984. The biochemistry and physiology of the lemon and other citrus fruits. University of California Publication #3306. University of California, Division of Agriculture and Natural Resources Publications. Oakland, CA


DATES


Popenoe, P.B. 1913. Date Growing in the Old World and the New. George Rice and Sons. Los Angeles, CA.


GENERAL
