Texas A&M University
Departmental Request for a New Course
Undergraduate • Graduate • Professional
• Submit original form and attach a course syllabus.

1. This request is submitted by the Department of  Horticultural Sciences

2. Course prefix, number and complete title of course: HORT 622 Citrus and Subtropical Fruits

3. Course description (not to exceed 50 words): Various types of citrus; identification, culture, processing, marketing, and the economic future; prepares students to function in a continuously changing production environment in production areas

4. Prerequisite(s): approval of instructor

Cross-listed with: stacked with HORT 422

Cross-listed courses require the signature of both department heads.

5. Is this a variable credit course? ☐ Yes ☒ No If yes, from ______ to ______

6. Is this a repeatable course? ☐ Yes ☒ No If yes, this course may be taken ______ times.

Will this course be repeated within the same semester? ☐ Yes ☒ No

7. Has this course been taught as a 489/689? ☒ Yes ☐ No If yes, how many times? 2

Indicate the number of students enrolled for each academic period it was taught. 2004C 2, 2006C 9

8. This course will be:

a. required for students enrolled in the following degree program(s) (e.g., B.A. in history)

b. an elective for students enrolled in the following degree program(s) (e.g., M.S., Ph.D. in geography)

M.S., MAG., PhD. in Horticulture

9. If other departments are teaching or are responsible for related subject matter, the course must be coordinated with these departments. Attach approval letters.

10. Prefix Course # Title (excluding punctuation)

<table>
<thead>
<tr>
<th>Lect.</th>
<th>Lab</th>
<th>SCH</th>
<th>CIP and Fund Code</th>
<th>Admin. Unit</th>
<th>Acad. Year</th>
<th>FICE Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>3</td>
<td>0</td>
<td>0 1 1 1 0 3 0 0 0</td>
<td>5 1 5 2 0 0</td>
<td>9 - 1 0 0 3 6 3 2</td>
<td></td>
</tr>
</tbody>
</table>

Approval recommended by:
Head of Department Date

Chair, College Review Committee Date

Dean of College Date

Submitted to Coordinating Board by:
Associate Director, Curricular Services

Questions regarding this form should be directed to Sandra Williams at 845-8201.
Curricular Services - 11/07
Syllabus
HORT 622 Citrus and Subtropical Fruits
Instructor: Dr. Bhimu Patil
Vegetable and Fruit Improvement Center
Department of Horticultural Sciences,
Texas A&M University, TX
Phone: 979-862-4521, Fax: 979-862-4522; E-mail: b-patil@tamu.edu

Instructor's Office Hours: Office hours: Wed. 1:30-2:30 PM or Arranged by appointment

Prerequisite: Approval of instructor.

Classroom: Texas A&M University-College Station, CTQ 120B (video conference room) and Texas A&M University, Agricultural Research and Extension Center, Weslaco, TX Room 157, Texas A&M Kingsville- TAI

Lecture: Tuesday and Thursday, 1:30 PM - 2:45 PM (concurrent with HORT 422). This course will be offered simultaneously on TTVN (Trans Texas Video Network) to three different locations.

Recitation: Tuesday 3:35-4:25 PM (graduate students only)
HORT 622 (3 cr.) for graduate students enrolled at Texas A&M University-College Station.
PLSS 6390 (3 cr.) for graduate students enrolled at Texas A&M University-Kingsville.

Course Description: Citrus and Subtropical Fruits is a 3 hour credit course with 3 weekly class meetings, including lecture and recitation sessions. The course encompasses the various types of citrus, including oranges, lemons, limes, grapefruit and mandarins. It also includes avocados and olives. The course covers identification, culture, processing, marketing, and economic future. By understanding the complete production of these fruits, graduates can prepare themselves to function in a continuously changing production environment.

Required Text: Davies, F.S. and L.G. Albrigo. 1994. Citrus. CAB International, Wallingford, UK. The Web will be used as a supplemental source of information for this course. Lecture outlines, course images, etc. are contained here.
Aggie Horticulture Online: Aggie Horticulture is a World Wide Web server connected online through Internet. Aggie Horticulture is accessible from any computer on campus (or anywhere in the world!) having Internet client software (for example, Explorer or Netscape). Students will use Aggie Horticulture as a tool for accessing electronic databases of horticultural information and will develop assignments for posting on the Internet.
Grades:
Each student’s grade will be based on total of 1000 points for the semester. A standard grading scale will be utilized. The grading scale for the course is:

<table>
<thead>
<tr>
<th>Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>900-1000</td>
<td>A</td>
</tr>
<tr>
<td>800-899</td>
<td>B</td>
</tr>
<tr>
<td>700-799</td>
<td>C</td>
</tr>
<tr>
<td>600-699</td>
<td>D</td>
</tr>
<tr>
<td>Below 600</td>
<td>F</td>
</tr>
</tbody>
</table>

Grading Breakdown

<table>
<thead>
<tr>
<th>Exam/Assignments</th>
<th>Points</th>
<th>% course total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mid term exam</td>
<td>300</td>
<td>30</td>
</tr>
<tr>
<td>Final Exam</td>
<td>300</td>
<td>30</td>
</tr>
<tr>
<td>Presentation and term paper</td>
<td>200</td>
<td>20</td>
</tr>
<tr>
<td>Participation in web discussion</td>
<td>200</td>
<td>20</td>
</tr>
</tbody>
</table>

Additional Requirements for Students:
Graduate students will be responsible for critiquing and summarizing a peer-reviewed published article related to citrus and subtropical crops for the weekly topic. Each graduate student will be required to write a term paper on a specific topic of citrus or subtropical fruit crops. The topics will be decided in the beginning of the semester. Each student will present the paper during the recitation period. Students will be graded on the recitation section of the course based on the quality of presentation, and material collected. The paper will have the same value as a major quiz letter.

Graduate students will be involved in a through web discussion of a specific topic each week after Wednesday’s class for 50 minutes. Participation in the web discussion, term paper and presentation for the whole semester will count the same value as a major letter quiz.

Make-Up Exams:
Students will be allowed the opportunity to make up any quiz, exam or other graded activities in accordance with university policy. University policy on make up work and absences can be found on the website, student-rules.tamu.edu/.

Late Assignments/term paper:
Late term papers are subject to penalty.
Changes in Schedule:
The instructor reserves the right to change the order and content of lectures as necessary. Exam dates (review paper due dates) (excluding the final) may be changed by the instructor, but at least 5 days notice will be given.

Facilitators for Trans-Texas Video Conference Sites:

<table>
<thead>
<tr>
<th>Name</th>
<th>Phone</th>
<th>Location</th>
<th>E-mail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Shad Nelson</td>
<td>361-593-3691</td>
<td>Kingsville</td>
<td><a href="mailto:shad.nelson@tamuk.edu">shad.nelson@tamuk.edu</a></td>
</tr>
<tr>
<td>Dr. Mani Skaria</td>
<td>956-968-2132</td>
<td>Weslaco</td>
<td><a href="mailto:m-skaria@tamu.edu">m-skaria@tamu.edu</a></td>
</tr>
</tbody>
</table>

Lecture topics

Topic 1 Introduction, Production and Subtropical Fruit Industry
      Interaction with Climate and Frost and Freeze Hazards

Topic 2 Classification & Cultivars
      Rootstocks

Topic 3 Propagation
      Breeding

Topic 4 Planting, Training and Pruning
      Nutrition and Mineral Deficiencies

Topic 5 Soil, Salinity and Nutrition Presentation slides
      Water Relations

Topic 6 Weed Control
      Harvesting

Topic 7 Postharvest Handling
      Review

Topic 8 Mid Term Exam
      Citrus Health Benefits

Topic 9 Virus and Virus-like Diseases
      Citrus Diseases (Continued)

Topic 10 Citrus Diseases
      Arthropod pests

Topic 11 Citrus Economics
      Field trip

Topic 12 Field trip
      Avocado Production

Topic 13 Olive production and processing
      Student Presentation

Topic 14 Student Presentations
<table>
<thead>
<tr>
<th>Student Presentations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Topic 15</td>
</tr>
<tr>
<td>Review</td>
</tr>
<tr>
<td>Final Exam</td>
</tr>
</tbody>
</table>

**Aggie Code of Honor:** "An Aggie does not lie, cheat, or steal or tolerate those who do."
Upon accepting admission to Texas A&M University, a student immediately assumes a commitment to uphold the Honor Code, to accept responsibility for learning and to follow the philosophy and rules of the Honor System. Students will be required to state their commitment on examinations research papers, and other academic work. Ignorance of the rules does not exclude any member of the Texas A&M University community from the requirements or the processes of the Honor System. For additional information please visit: [www.tamu.edu/aggiehonor/](http://www.tamu.edu/aggiehonor/)

**Copyrights:** Please note that all handouts and supplements used in this course are copyrighted.

**Americans with Disabilities Act (ADA):** The Americans with Disabilities Act (ADA) is a federal antidiscrimination statute that provides comprehensive civil rights protection for persons with disabilities. Among other things, this legislation requires that all students with disabilities be guaranteed a learning environment that provides for reasonable accommodation of their disabilities. If you believe you have a disability requiring an accommodation, please contact the Department of Student Life, Services for Students with Disabilities in Room B118 of Cain Hall or call 845-1637.