

HOS 6546 ADVANCED CITRICULTURE II
 REGULATION OF REPRODUCTIVE GROWTH OF CITRUS
 Spring 2012

Lecture & Discussion Topic	Date	Week
A. Citrus Flower Induction		
1. Morphology and chronological sequence-	1/9	1
2. Genetic variability and juvenility-	1/9	
3. Temperature, moisture, and photoperiod controls	1/16 Holiday?	2
4. Hormonal and substrate control-	1/23	3
B. Time of Flowering		
1. Climatic - subtropical vs. tropical-	1/30	4
2. Cultural manipulation of time and intensity-	1/30	
C. Fruit Set		
1. General characteristics-	2/6	5
2. Cultural manipulation		
a. crop load-	2/13	6
b. moisture effects	2/13	
3. Nutritional and hormone control	2/20 Holiday?	7
D. Alternate Bearing		
1. Characteristics and genetic variability-	2/27	8
2. Regulation		
a. substrate (vegetative and crop competition.)-	3/5	9
b. hormonal-	3/5	
c. climatic-	3/5	
Spring Break		
	3/12-16	
3. Cultural manipulation		
a. crop load and harvest time-	3/19	10
b. other methods-	3/19	
* Flowering lab		
	3/19	
E. Fruit Development		
1. Review of anatomical, morphological, chemical, and physiological changes-	3/26	11
2. Regulation		
a. substrate, source/sink-	4/2	12
b. hormonal-	4/9	13
c. moisture-	4/9	
d. temperature and light-	4/16	14
3. Cultural manipulation		
a. growth regulators-	4/23	15
b. other practices-	4/23	
* Field observations of flowering	Date determined by climate	

Class Procedure

For each week a set of about 8 papers will be assigned and provided the previous week for reading and evaluation before class. Each student will select 4 of the papers and write a review stating the purpose, objectives, general methods, results and if the results answered the question asked at the beginning of the work. Additional observations about each paper' clarity, organization, etc. also should be noted. Each review should be at least ½ pages in length (single spaced) but not more than 1 page. These evaluations should be handed in at the beginning of the session in which they will be discussed, one week after they are handed out. Each class will include a PowerPoint guided lecture and specific discussion period of each paper.

Grading

Grades will be determined by discussion participation (1/3rd) and review summaries of papers (2/3rd).