



# SULTAN QABOOS UNIVERSITY

## COURSE OUTLINE

### PROGRAM: Bachelor of Science in Plant Sciences

<b>1. Course Code</b>	PLNT3514	
<b>2. Course Title</b>	Fruit Production	
<b>3. Credits</b>	3 Cr Hrs , 12 Cr Points, 6 ECTS	
<b>4. Pre-requisite Course(s)</b>	BIOL2101, PLNT2515	
<b>5. Co-requisite Course(s)</b>		
<b>6. Equivalent Course(s)</b>	CROP3514, HORT3514	
<b>7. Incompatible Course(s)</b>		
<b>8. Course Category</b>	<input type="checkbox"/> University Requirement	<input type="checkbox"/> University Elective
	<input type="checkbox"/> College Requirement	<input type="checkbox"/> College Elective
	<input checked="" type="checkbox"/> Department Requirement	<input type="checkbox"/> Department Elective
	<input type="checkbox"/> Specialization Requirement	<input type="checkbox"/> Specialization Elective
	<input type="checkbox"/> Other (specify):	
<b>9. Course Owner</b>	College: CAMS	Department: Plant Sciences
<b>10. Course Type</b>	<input type="checkbox"/> Lecture	<input checked="" type="checkbox"/> Lecture/Lab
	<input type="checkbox"/> Lecture/Seminar	<input type="checkbox"/> Lecture/Studio
	<input type="checkbox"/> Lecture/Tutorial	<input type="checkbox"/> Lecture/Lab/Tutorial or Seminar
	<input type="checkbox"/> Tutorial	<input type="checkbox"/> Laboratory (Practical)
	<input type="checkbox"/> Field or Work Placement	<input type="checkbox"/> Studio
	<input type="checkbox"/> Seminar	<input type="checkbox"/> Internship
	<input type="checkbox"/> Workshop	<input type="checkbox"/> Project
<b>11. Language of Instruction</b>	English	
<b>12. Course Description</b>		
This course is designed to acquaint the student with the taxonomic classification, botanical description, production trends, cultural practices and uses of major fruit crops. Emphasis is especially placed on fruit crops grown in Oman.		
<b>13. Teaching/Learning Strategies</b>		
Lectures Field trips Laboratory reports and assignments Presentations		
<b>14. Assessment Components and Weight [%]</b>		
<input checked="" type="checkbox"/> Quizzes 10	<input checked="" type="checkbox"/> Practical 20	<input checked="" type="checkbox"/> Other (specify): Lab final 10
<input type="checkbox"/> Homework assignments	<input checked="" type="checkbox"/> Project 15	
<input checked="" type="checkbox"/> In-term examination(s) 10	<input checked="" type="checkbox"/> Final examination 35	
<b>15. Grading Method</b>		
<input checked="" type="checkbox"/> A-F Scale <input type="checkbox"/> Pass/Not passed		
<b>16. Textbook(s) and Supplemental Material</b>		
Reiger, Mark. 2006. "Introduction to Fruit Crops" (available as hard copy and link to e-version on the Moodle)		

17. Matching Course Objectives with Program Outcomes and SQU Graduate Attributes		
SQU Graduate Attributes		
<b>A. SQU graduates should be able to:</b> <ol style="list-style-type: none"> <li>1. apply the knowledge and skills relevant to the specialization</li> <li>2. communicate effectively and use information and communication technologies</li> <li>3. critically analyze complex information and present it in simple clear manner</li> </ol>	<b>B. SQU graduates possess</b> <ol style="list-style-type: none"> <li>1. interpersonal communication skills and alignment with culture of international labour market to assist them in practical life and in living successfully</li> <li>2. skills and motivation for independent learning and engagement in lifelong learning and research</li> <li>3. work ethics and positive values, and intellectual independence and autonomy</li> <li>4. teamwork skills and display potential leadership qualities</li> </ol>	<b>C. SQU graduates should</b> <p>relish good citizenship qualities, be conscious of their national identity and be socially responsible, engage in community affairs and be mindful of contemporary issues.</p>

#	Intended Student Learning Outcome /Course Learning Objective	Relevant Program Outcome(s)	Applicable Attribute(s)
1.	Recognize the importance of fruit production in Oman and the challenges faced. Introduce students to fruit production practices and systems, as well as the diversity of fruits and climates in Oman.	A.1.2 Graduates will have understanding of crop production systems in Oman	A1
2.	Gain practical experiences in fruit production management, including plant nutrition, irrigation, pruning, pest management, harvesting, and post-harvest storage conditions.	A.3 Graduates will be able to analyze and interpret data, draw conclusion and propose solutions to different issues in crop production, landscape design, and crop protection B.4 Graduates will have the ability to build teams and work in team for target-oriented tasks.	A3, B4
3.	Investigate new methods and varieties used in fruit management including greenhouses, organic and other systems of production. Gain practical experience from field and farm visits.	A.1.3 Graduates will have an understanding of elements of the crop farming business B4 Graduates will have the ability to build teams and work in team for target oriented tasks.	A1, B4
4.	Describe and explain how to propagate common fruits in Oman, and how to produce crops from seeds or cuttings to harvest.	A.1.1, Graduates will have knowledge and skills in crop sciences A.1.5, Graduates will be able to identify and analyze problems related to crop production systems, and formulate realistic solutions A.3 Graduates will be able to analyze and interpret data, draw conclusion and propose solutions to different issues in crop production, landscape design, and crop protection	A1, A3
5.	Describe and explain the basic requirements for fruit production (water, temperature, soil nutrient levels, etc. Be able to successfully administer the proper soil fertility amendments and pest management controls.	A.1.1 Graduates will have knowledge and skills in crop sciences A.1.2, Graduates will have understanding of crop production systems in Oman A.1.3, Graduates will have an understanding of elements of the crop farming business A.1.4, Graduate will have an ability to solve environmental and manmade problems through design. A.1.5 Graduates will be able to identify and analyze problems related to crop production systems, and formulate realistic solutions	A1

6.	Recognize and describe the dynamics of fruit crop production on a commercial scale, as well as home-garden scale.	A.1.3, Graduates will have an understanding of elements of the crop farming business C Graduates will have knowledge of relevant Omani laws, and understanding and motivation for environmental protection, resource conservation and social service.	A1, C
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#### 16. Student Responsibilities

It is the student's responsibility to know and comply with all University Academic Regulations relevant to participation in this course. These regulations specifically include attendance requirement and students' academic code of conduct.

For attendance, it is the student's responsibility to be punctual and to attend all classes.

Students are expected to perform their work with honesty and avoid any academic misconduct, which is defined as the use of any dishonest or deceitful means to gain some academic advantage or benefit. This can take many forms, including but not limited to, the following: copying, plagiarism, collusion and forging documents. For full details, please refer to the Undergraduate Academic Regulations and to the Student Academic Misconduct Policy.

Additionally, this course requires that you:

COURSE INFORMATION			
Course Code	PLNT3514	Course Title	Fruit Production
Semester/ Year	Spring	Section(s)	10, 11
Day, Time, and Place			
Course Coordinator	Rashid AlYahyai		
Office Location	1215	Office Hours	
Office Tel. Ext.	1208	Email	alyahyai@squ.edu.om
Tentative Schedule			
Week	Lecture and lab	Topic/Material to be covered	Assessment
1	1	Fruit overview, definitions, Lab: fruit morphology	quiz, exam, final
2	2	Fruit of Oman, world fruit, climate, Lab: fruit classification -temperate	quiz, exam, final
3	3	Lecture: Date palm and coconut, cultivars, growing conditions Lab: fruit classification - tropical	quiz, exam, final
4	4	Lecture: Citrus, Lab: fruit crop management at SQU Botanical garden or AES	quiz, exam, final plus lab reports
5	5	Lecture: Banana, Lab: determination of fruit maturity using Brix ratio and starch iodine test.	quiz, exam, final
6	6	Lecture: Mango, Lab: field trip to Mawaleh market, see fruit storage units, banana ripening with ethylene	quiz, exam, final
7	7	Other tropical fruits, Lab: tree pruning and training	quiz, exam, final
8	8	Midterm exam, Lab: field trip to Sohar Mango variety trials	field trip report
9	9	Lecture: temperate fruits in Oman, berries, lab: maturity indices in fruit	quiz, exam, final
10	10	Temperate tree fruits in Oman, Lab: field trip to RCA nursery	quiz, exam, final
11	11	Temperate vine fruits, Lab: Open lab, field trip	Final project presentation and report
12	12	Fruit in the home landscape, Lab: orchard management, marketing	quiz, exam, final
13	13	Quiz 2, project presentations 1	quiz, exam, final
14	14	Possible holiday for lecture, project presentations 2	lab report
15	15	Review of all topics, presentations	quiz, exam, final
16			
17			

## APPENDIX A: INSTRUCTORS OF MULTIPLE SECTIONS

[illegible]

<b>APPENDIX B: ADDITIONAL INFORMATION</b>