



Degree and Study Plan

College: Agricultural and Marine Sciences
Department: Plant Sciences
Cohort: 2022, 2023
Degree: Bachelor of Science
Major: Plant Sciences

<u>Summary of Credits:</u>	
University Requirements (UR)	6
Arabic	2
Contemporary Omani State & People	2
Oman & Islamic Civilization or Islamic Culture	2
University Electives (UE)	6
See List A	
College Requirements (CR)	26
See list B	
College Electives (CE)	6
See list C	
Departmental Requirements (DR)	
See list D	
Departmental Electives	
See list E	
Major Requirements (AR)	66
See list F	
Major Electives (AE)	15
See list G	
Specialization Requirements (SR)	
See list H	
Specialization Electives (SE)	
See list I	
Minor Requirements (IR)	9
See list J	
Minor Electives (IE)	9
See list K	
TOTAL	125

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HoD: **Dr. Muhammad Farooq**

Date: 27/12/2022

Dean's Office: **Prof. Abdullah Al-Sadi**

Date: 27/12/2022

Admission and Registration:

Date:



DEPARTMENT OF PLANT SCIENCES

PLANT SCIENCES

Study Plan: for Cohort 2022, 2023

Sem.	Course Code	Course Title	Cr.	Pre-req./Co-req.*	Cat.
ONE		Foundation Program	0		UR
FALL	TOTAL		0		

TWO SPRING	ARAB1060	Arabic ¹	2		UR
	CAMS2000	Intro. to CAMS	1		CR
	CAMS2003	Intro. to Food and Resource Economics	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CR
	BIOL2101	General Biology I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604), FPMT(0105 or 0109)	CR
	LANC2145	Communication in Agricultural Sciences	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CR
	XXXX XXXX	University Elective*	2		UE
	TOTAL		15		

THREE FALL	HIST1010	Oman & Islamic Civilization	2	ISLM1010	UR
	CHEM2101	General Chemistry I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CR
	LANC2146	Academic Writing in Science	3	LANC(2145)	CR
	XXXX XXXX	University Elective*	2		UE
	XXXX XXXX	University Elective*	2		UE
	PLNT2515	Intro. to Plant Sciences	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CE
	TOTAL		16		

FOUR SPRING	CAMS3000	Seminar & Presentation Skills	2	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2146	CR
	CAMS3001	Biometry & Expt. Des. AMS	3	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2146	CR
	SOCY1005	Contemporary Omani State & People ²	2		UR
	SWAE2201	Introduction to Soils and Water	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CE
	PLNT3333	Plant Genetics	3	BIOL2101, PLNT2515	MR
	PLNT3000	Principles of Plant Physiology	3	BIOL2101, PLNT2515	MR
	TOTAL		16		

FIVE FALL	PLNT3011	Plant Propagation	3	BIOL2101, PLNT2515	MR
	PLNT3522	Plant Pathology	3	BIOL2101	MR
	PLNT3526	General Entomology	3	BIOL2101, PLNT2515	MR
	PLNT3211	Ornamental Horticulture	3	BIOL2101, PLNT2515	MR
	PLNT3512	Vegetable Production	3	BIOL2101, PLNT2515	MR
	TOTAL		15		

¹Non-Arabic speakers should register for ARAB1019 (3 credits), offered only during fall semesters

²Non-Omanis should register for SOCY1007 (2 credits)

* STUDENTS MAJORING IN PLANT SCIENCES ARE NOT ALLOWED TO TAKE PLANT SCIENCES UNIVERSITY ELECTIVE COURSES.

SIX SPRING	PLNT3121	Bee Keeping	3	BIOL2101, PLNT2515	MR
	PLNT3006	Field Crop Production	3	BIOL2101, PLNT2515	MR
	PLNT3514	Fruit Production	3	BIOL2101, PLNT2515	MR
	PLNT4540	Arthropod Pests of Major Crops	3	PLNT3526 + CR*	MR
	PLNT4542	Diseases of Economic Crops	3	PLNT3522 + CR*	MR
	TOTAL		15		

SEVEN FALL	PLNT3201	Agricultural Biotechnology	3	BIOL2101	MR
	PLNT4005	Plant Nutrition Management	3	PLNT3000 or BIOL3011; PLNT3211, PLNT3006, PLNT3512, PLNT3514 + CR*	MR
	PLNT4515	Landscape Design and Management	3	PLNT3211+ CR*	MR
	PLNT4529	Pesticides in Agriculture	3	PLNT3522, PLNT3526 + CR*	MR
	PLNTXXXX	Major Elective	3	Check pre-requisites	ME
	TOTAL		15		

EIGHT SPRING	PLNT4006	Weeds and their Control	3	PLNT3006, PLNT3211, PLNT3512, PLNT3514 + CR*	MR
	PLNT4517	Nursery & Greenhouse Management	3	PLNT3011, PLNT3211, PLNT3512, PLNT3514, PLNT4540, PLNT4542 + CR*	MR
	PLNT4546	Integrated Pest and Disease Management	3	PLNT4542+ CR*, PLNT4540 + CR*	MR
	PLNT4903	Research Project in Plant Sciences-I	3	PLNT3000, PLNT3006, PLNT3011, PLNT3121, PLNT3201, PLNT3211, PLNT3333, PLNT3512, PLNT3514, PLNT3522, PLNT3526, PLNT4005, PLNT4515, PLNT4529, PLNT4540, PLNT4542 + CR**	MR
	PLNTXXXX	Major elective	3	Check pre-requisites	ME
	TOTAL		15		

SUMMER	PLNT4800	Plant Sciences Internship	3	Completion of a minimum of 87 credits, including: PLNT3011, PLNT3121, PLNT3201, PLNT3333, PLNT4005, PLNT4529, PLNT4540, PLNT4542 + CR**	MR
	TOTAL		3		

NINE FALL	CAMS4001	Management & Business Skills	3	CR*	CR
	PLNT4904	Research Project in Plant Sciences-II	3	PLNT4903	MR
	PLNTXXXX	Major Elective	3	Check pre-requisites	ME
	PLNTXXXX	Major Elective	3	Check pre-requisites	ME
	PLNTXXXX	Major Elective	3	Check pre-requisites	ME
	TOTAL		15		

*CR: CAMS COLLEGE REQUIREMENT COURSES WHICH ARE: BIOL2101, CHEM2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001.

DEPARTMENT OF PLANT SCIENCES
PLANT SCIENCES
LIST B: College Requirements (26 Credits)

Course Code	Course Title	Cr.	Pre-Requisite	Equivalents
BIOL2101	General Biology I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	
CHEM2101	General Chemistry I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604), FPMT(0105 or 0109)	
LANC2145	Communication in Agricultural Sciences	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	
LANC2146	Academic Writing in Science	3	LANC2145	
CAMS2000	Introduction to Agricultural and Marine Sciences	1		
CAMS2003	Introduction to Food and Resource Economics	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	
CAMS3000	Seminar and Presentation Skills	2	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2146	
CAMS3001	Biometry and Experimental Design in Agricultural and Marine Sciences	3	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2146	
CAMS4001	Management and Business Skills	3	CR*	

* CR: CAMS COLLEGE REQUIREMENT COURSES WHICH ARE: BIOL2101, CHEM2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001.

LIST C: College Electives (6 Credits)*

Course Code	Course Title	Cr.	Pre-Requisite	Equivalents
ANVS2101	Principles of Animal Science	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	ANVS2001
ANVS2201	Introduction to Veterinary Technology	3		ANVS2002
FSHN2101	Principles of Food Science	3		FSHN2071
FSHN2301	Introduction to Human Nutrition and Dietetics	3		
MASF2003	Introduction to Marine Science and Fisheries	3		
PLNT2515	Introduction to Plant Sciences*	3		CROP2515, CROP2510
SWAE2001	Introduction to Agricultural Engineering	3		
SWAE2201	Introduction to Soils and Water*	3		

*PLANT SCIENCES STUDENTS ARE REQUIRED TO TAKE PLNT2515, AND IT IS HIGHLY RECOMMENDED THAT THEY ALSO TAKE SWAE2201.

DEPARTMENT OF PLANT SCIENCES
PLANT SCIENCES
LIST F: Major Requirements (66 Credits)

Course Code	Course Title	Cr.	Pre-Requisite	Equivalents
PLNT3000	Principles of Plant Physiology	3	BIOL2101, PLNT2515	BIOL3011
PLNT3006	Field Crop Production	3	BIOL2101, PLNT2515	CROP3005, CROP4005, AGRN4005
PLNT3011	Plant Propagation	3	BIOL2101, PLNT2515	CROP3011, CROP4011, HORT4011
PLNT3121	Bee Keeping	3	BIOL2101, PLNT2515	CROP3121, CROP4521
PLNT3201	Agricultural Biotechnology	3	BIOL2101	CROP3201, CROP2201
PLNT3211	Ornamental Horticulture	3	BIOL2101, PLNT2515	CROP3211, CROP2011, HORT2011
PLNT3333	Plant Genetics	3	BIOL2101, PLNT2515	CROP3333, CROP2001, GENE2001
PLNT3512	Vegetable Production*	3	BIOL2101, PLNT2515	CROP3512, HORT3512
PLNT3514	Fruit Production*	3	BIOL2101, PLNT2515	CROP3514, HORT3514
PLNT3522	Plant Pathology	3	BIOL2101	CROP3522, PROT3522
PLNT3526	General Entomology	3	BIOL2101, PLNT2515	CROP3526, PROT3526
PLNT4005	Plant Nutrition Management	3	PLNT3000 or BIOL3011; PLNT3006, PLNT3211, PLNT3512, PLNT3514 + CR**	CROP4001, AGRN4001
PLNT4006	Weeds and their Control	3	PLNT3006, PLNT3211, PLNT3512, PLNT3514+ CR**	CROP4006, AGRN4006
PLNT4515	Landscape Design and Management	3	PLNT3211+ CR**	CROP4515, CROP4514
PLNT4517	Nursery and Greenhouse Management	3	PLNT3011, PLNT3211, PLNT3512, PLNT3514, PLNT4540, PLNT4542 + CR**	CROP4517
PLNT4529	Pesticides in Agriculture	3	PLNT3522, PLNT3526 + CR**	CROP4529, PROT4529
PLNT4540	Arthropod Pests of Major Crops	3	PLNT3526 + CR**	CROP4540, CROP4526, PROT4526
PLNT4542	Diseases of Economic Crops	3	PLNT3522 + CR**	CROP4542, PROT4542
PLNT4546	Integrated Pest and Disease Management	3	PLNT4540+ CR**, PLNT4542+ CR**	PLNT4528 plus PLNT4544 is equivalent to PLNT4546
PLNT4800	Plant Sciences Internship	3	Completion of a minimum of 87 credits, including: PLNT3011, PLNT3121, PLNT3201, PLNT3333, PLNT4005, PLNT4529, PLNT4540, PLNT4542 + CR**	CROP4800
PLNT4903	Research Project in Plant Sciences-I	3	PLNT3000, PLNT3006, PLNT3011, PLNT3121, PLNT3201, PLNT3211, PLNT3333, PLNT3512, PLNT3514, PLNT3522, PLNT3526, PLNT4005, PLNT4515, PLNT4529, PLNT4540, PLNT4542 + CR**	
PLNT4904	Research Project in Plant Sciences-II	3	PLNT4903	CROP4902, CROP4900, PLNT4900

* RECOMMENDED BACKGROUND COURSE: SWAE2201

** CR: CAMS COLLEGE REQUIREMENT COURSES WHICH ARE: BIOL2101, CHEM2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001.

LIST G: Major Electives (15 Credits)*

Course Code	Course Title	Cr.	Pre-Requisite	Equivalents
PLNT3213	Floriculture	3	PLNT3211	CROP3213, CROP4213, CROP4513
PLNT3500	GIS Applications for Landscape Architecture	3	BIOL2101, PLNT2515, CAMS3001	CROP3500
PLNT3555	Mushroom Cultivation	3	PLNT3522 or FSHN3105	CROP3555
PLNT3666	Methods in Plant Pathology	3	PLNT3522	CROP3666, CROP4111,
PLNT4003	Recombinant DNA Technology	3	PLNT3201 + CR***	CROP4000
PLNT4002	Plant Breeding	3	PLNT3333, PLNT3211, PLNT3006, PLNT3512, PLNT3514 + CR***	CROP4002, GENE4002
PLNT4004	Seed Production	3	PLNT3006, PLNT3512 + CR***	CROP4004
PLNT4115	Phytonematology	3	PLNT3522 + CR***	CROP4115
PLNT4444	Organic Agriculture**	3	PLNT2515 + CR***	CROP4444
PLNT4512	Post-harvest Physiology	3	PLNT4005 + CR***	CROP4512, HORT4512
PLNT4520	Crop Growth and Management	3	PLNT3000 or BIOL3011 + CR***	CROP4520
PLNT4523	Medical and Veterinary Entomology	3	PLNT3526 + CR***	CROP4523, PROT4523
PLNT4524	Biological Control of Arthropod Crop Pests	3	PLNT3526 + CR***	CROP4524
PLNT4525	Advanced Design for Landscape Architecture	3	PLNT4515 + CR***	CROP4525
PLNT4535	Digital Design for Landscape Architects	3	PLNT4515 + CR***	CROP4535
PLNT4530	Insect Biotechnology	3	PLNT3201, PLNT3526 + CR***	CROP4530
PLNT4541	Plant-Pathogens Interactions	3	PLNT3201 , PLNT3522 + CR***	CROP4541, PROT4541

* NEW ELECTIVE COURSES ADDED AT A LATER STAGE BY THE DEPARTMENT, AND COURSES FROM ANY OTHER DEPARTMENT OF THE COLLEGE OF AGRICULTURAL AND MARINE SCIENCES OR ANOTHER COLLEGE, MAY BE SELECTED WITH THE APPROVAL OF ACADEMIC ADVISOR, HEAD OF THE DEPARTMENT AND ASSISTANT DEAN OF UNDERGRADUATE STUDIES. NO COURSE WILL BE APPROVED WITHOUT FILLING THE SUBSTITUTION FORM AND GETTING ALL NECESSARY APPROVALS PRIOR TO REGISTERING ANY COURSE NOT LISTED IN THE ABOVE LIST OF MAJOR ELECTIVES.

** RECOMMENDED BACKGROUND COURSE: SWAE2201

*** CR: CAMS COLLEGE REQUIREMENT COURSES WHICH ARE: BIOL2101, CHEM2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001.

DEPARTMENT OF PLANT SCIENCES
PLANT SCIENCES
LIST J: Minor Requirements (9 Credits)

Course Code	Course Title	Cr.	Pre-Requisite
PLNT2515	Introduction to Plant Sciences	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)
PLNT3522	Plant Pathology	3	BIOL2101
PLNT3526	General Entomology	3	BIOL2101, PLNT2515

LIST K: Minor Electives (9 Credits)

Course Code	Course Title	Cr.	Pre-Requisite
	<u>CHOOSE 2 COURSES FROM FOLLOWING:</u>		
PLNT3006	Field Crop Production	3	BIOL2101, PLNT2515
PLNT3211	Ornamental Horticulture	3	BIOL2101, PLNT2515
PLNT3512	Vegetable Production	3	BIOL2101, PLNT2515
PLNT3514	Fruit Production	3	BIOL2101, PLNT2515
	<u>CHOOSE 1 COURSE FROM FOLLOWING:</u>		
PLNT3000	Principles of Plant Physiology	3	BIOL2101, PLNT2515
PLNT3006	Field Crop Production	3	BIOL2101, PLNT2515
PLNT3011	Plant Propagation	3	BIOL2101, PLNT2515
PLNT3121	Bee Keeping	3	BIOL2101, PLNT2515
PLNT3201	Agricultural Biotechnology	3	BIOL2101
PLNT3211	Ornamental Horticulture	3	BIOL2101, PLNT2515
PLNT3213	Floriculture	3	PLNT3211
PLNT3333	Plant Genetics	3	BIOL2101, PLNT2515
PLNT3512	Vegetable Production	3	BIOL2101, PLNT2515
PLNT3514	Fruit Production	3	BIOL2101, PLNT2515
PLNT3555	Mushroom Cultivation	3	PLNT3522 or FSHN3105
PLNT3666	Methods in Plant Pathology	3	PLNT3522
PLNT4115	Phytonematology	3	PLNT3522+ CR*
PLNT4444	Organic Agriculture	3	PLNT2515 + CR*
PLNT4515	Landscape Design and Management	3	PLNT3211+CR*
PLNT4523	Medical and Veterinary Entomology	3	PLNT3526+CR*
PLNT4524	Biological Control of Arthropod Crop Pests	3	PLNT3526 + CR*
PLNT4529	Pesticides in Agriculture	3	PLNT3522, PLNT3526 + CR*
PLNT4540	Arthropod Pests of Major Crops	3	PLNT3526 + CR*
PLNT4542	Diseases of Economic Crops	3	PLNT3522 + CR*

* CR: CAMS COLLEGE REQUIREMENT COURSES WHICH ARE: BIOL2101, CHEM2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001.