

Department of Integrative Agriculture

Bachelor of Science in Horticulture Model Study Plan (2020-2021 Cohort onwards)
Concentration: Environment Horticulture

For Students Admitted to the University in the Fall Semester
Total Degree Credit hours: 120

Semester	Course Code	Course Title	CH	Course type
Year 1 1 (Fall)	CHEM111	General Chemistry I	3	Specialization
	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			15	
Year 1 2 (Spring)	MATH105	Calculus I	3	College Requirement
	ARAG220	Natural Resources	3	Specialization
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	ELECTIVE	Student choice	3	Free Elective
			12	
Year 2 3 (Fall)	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	ARAG200	Principles of Soil and Water	3	Specialization
	ARAG307	Introduction to Horticulture	2	Specialization
	BIOL215	Plant Biology	3	Specialization
	BIOL225	Practical Plant Biology	1	Specialization
			15	
Year 2 4 (Spring)	PHYS105	General Physics I	3	College Requirement
	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	ARAG242	Principles of Plant Protection	3	Specialization
	ARAG310	Agricultural Technology Transfer	3	Specialization
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			15	
Year 3 5 (Fall)	ARAG311	Plant Propagation	2	Specialization
	CHEM283	Biochemistry for Non-Majors	3	Specialization
	ARAG327	Plant Physiology and Environmental Stress	3	Specialization
	BIOL270	General Genetics	2	Specialization
	ELECTIVE	Student choice	3	Major Elective
	ELECTIVE	Student choice	3	Minor Elective
			16	
Year 3 6 (Spring)	ARAG308	Soil Fertility and Fertilizer	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	ARAG465	Salt and Drought Tolerant Plants	2	Specialization
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	ELECTIVE	Student choice	3	Major Elective
	ELECTIVE	Student choice	3	Minor Elective
			17	
Year 4 7 (Fall)	ARAG451	Landscape Management for Arid Lands	3	Concentration
	ARAG453	Indoor Plants and Flower Arrangements	3	Concentration
	ARAG443	Irrigation, Drainage and Water Management	3	Specialization
	ARAG485	Senior Project	3	Training
	ELECTIVE	Student choice	3	Major Elective
			15	
Year 4 8 (Spring)	ARAG402	Woody Plants in the Landscape	3	Concentration
	ARAG454	Landscape Design	3	Concentration
	ARAG445	Internship	3	Internship
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	ELECTIVE	Student choice	3	Free Elective
			15	

Department of Integrative Agriculture

Bachelor of Science in Horticulture Model Study Plan (2020-2021 Cohort onwards)

Concentration: Environment Horticulture

For Students Admitted to the University in the Spring Semester

Total Degree Credit hours: 120

Semester	Course Code	Course Title	CH	Course type
Year 1 1 (Spring)	CHEM111	General Chemistry I	3	Specialization
	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	ARAG220	Natural Resources	3	Specialization
			18	
Year 1 2 (Fall)	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	ARAG200	Principles of Soil and Water	3	Specialization
	ARAG307	Introduction to Horticulture	2	Specialization
	BIOL215	Plant Biology	3	Specialization
	BIOL225	Practical Plant Biology	1	Specialization
			15	
Year 2 3 (Spring)	PHYS105	General Physics I	3	College Requirement
	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	ARAG310	Agricultural Technology Transfer	3	Specialization
	ARAG242	Principles of Plant Protection	3	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			15	
Year 2 4 (Fall)	ARAG311	Plant Propagation	2	Specialization
	CHEM283	Biochemistry for Non-Majors	3	Specialization
	ARAG327	Plant Physiology and Environmental Stress	3	Specialization
	BIOL270	General Genetics	2	Specialization
	ELECTIVE	Student choice	3	Major Elective
	ELECTIVE	Student choice	3	Minor Elective
			16	
Year 3 5 (Spring)	ARAG308	Soil Fertility and Fertilizer	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	ARAG465	Salt and Drought Tolerant Plants	2	Specialization
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	ELECTIVE	Student choice	3	Minor Elective
			14	
Year 3 6 (Fall)	ARAG451	Landscape Management for Arid Lands	3	Concentration
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	ARAG443	Irrigation, Drainage and Water Management	3	Specialization
	ELECTIVE	Student choice	3	Major Elective
ARAG453	Indoor Plants and Flower Arrangements	3	Concentration	
			15	
Year 4 7 (Spring)	ARAG402	Woody Plants in the Landscape	3	Concentration
	ARAG454	Landscape Design	3	Concentration
	ELECTIVE	Student choice	3	Major Elective
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
ELECTIVE	Student choice	3	Free Elective	
			15	
Year 4 8 (Fall)	ARAG445	Internship	3	Internship
	ARAG485	Senior Project	3	Training
	ELECTIVE	Student choice	3	Free Elective
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
			12	

Bachelor of Science in Horticulture Model Study Plan (2020-2021 Cohort onwards)
Concentration: Crop Production and Organic Farming

For Students Admitted to the University in the Fall Semester
Total Degree Credit hours: 120

Semester	Course Code	Course Title	CH	Course type
Year 1 1 (Fall)	CHEM111	General Chemistry I	3	Specialization
	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
			15	
Year 1 2 (Spring)	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	ARAG220	Natural Resources	3	Specialization
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	ELECTIVE	Student choice	3	Free Elective
			12	
Year 2 3 (Fall)	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	ARAG200	Principles of Soil and Water	3	Specialization
	ARAG307	Introduction to Horticulture	2	Specialization
	BIOL215	Plant Biology	3	Specialization
BIOL225	Practical Plant Biology	1	Specialization	
			15	
Year 2 4 (Spring)	PHYS105	General Physics I	3	College Requirement
	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	ARAG242	Principles of Plant Protection	3	Specialization
	ARAG310	Agricultural Technology Transfer	3	Specialization
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			15	
Year 3 5 (Fall)	ARAG311	Plant Propagation	2	Specialization
	CHEM283	Biochemistry for Non-Majors	3	Specialization
	ARAG327	Plant Physiology and Environmental Stress	3	Specialization
	BIOL270	General Genetics	2	Specialization
	ELECTIVE	Student choice	3	Major Elective
	ELECTIVE	Student choice	3	Minor Elective
			16	
Year 3 6 (Spring)	ARAG308	Soil Fertility and Fertilizer	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	ARAG465	Salt and Drought Tolerant Plants	2	Specialization
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	ELECTIVE	Student choice	3	Major Elective
	ARAG305	Principles of Organic Horticulture	3	Concentration
			17	
Year 4 7 (Fall)	ARAG407	Design of Organic Production System	3	Concentration
	ARAG485	Senior Project	3	Training
	ARAG443	Irrigation, Drainage and Water Management	3	Specialization
	ELECTIVE	Student choice	3	Major Elective
	ELECTIVE	Student choice	3	Minor Elective
			15	
Year 4 8 (Spring)	ARAG452	Palms and Dates	3	Concentration
	ARAG404	Vegetable Production in Arid Lands	3	Concentration
	ARAG445	Internship	3	Internship
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	ELECTIVE	Student choice	3	Free Elective
			15	

Department of Integrative Agriculture

Bachelor of Science in Horticulture Model Study Plan (2020-2021 Cohort onwards)
Concentration: Crop Production and Organic Farming

For Students Admitted to the University in the Spring Semester
Total Degree Credit hours: 120

Semester	Course Code	Course Title	CH	Course type
Year 1 1 (Spring)	CHEM111	General Chemistry I	3	Specialization
	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	ARAG220	Natural Resources	3	Specialization
			18	
Year 1 2 (Fall)	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	ARAG200	Principles of Soil and Water	3	Specialization
	ARAG307	Introduction to Horticulture	2	Specialization
	BIOL215	Plant Biology	3	Specialization
	BIOL225	Practical Plant Biology	1	Specialization
			15	
Year 2 3 (Spring)	PHYS105	General Physics I	3	College Requirement
	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	ARAG310	Agricultural Technology Transfer	3	Specialization
	ARAG242	Principles of Plant Protection	3	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
				15
Year 2 4 (Fall)	ARAG311	Plant Propagation	2	Specialization
	CHEM283	Biochemistry for Non-Majors	3	Specialization
	ARAG327	Plant Physiology and Environmental Stress	3	Specialization
	BIOL270	General Genetics	2	Specialization
	ELECTIVE	Student choice	3	Major Elective
	ELECTIVE	Student choice	3	Minor Elective
			16	
Year 3 5 (Spring)	ARAG308	Soil Fertility and Fertilizer	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	ARAG465	Salt and Drought Tolerant Plants	2	Specialization
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	ELECTIVE	Student choice	3	Minor Elective
	ARAG305	Principles of Organic Horticulture	3	Concentration
			17	
Year 3 6 (Fall)	ARAG407	Design of Organic Production System	3	Concentration
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
	ARAG443	Irrigation, Drainage and Water Management	3	Specialization
	ELECTIVE	Student choice	3	Major Elective
			12	
Year 4 7 (Spring)	ARAG452	Palms and Dates	3	Concentration
	ARAG404	Vegetable Production in Arid Lands	3	Concentration
	ELECTIVE	Student choice	3	Major Elective
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	ELECTIVE	Student choice	3	Free Elective
			15	
Year 4 8 (Fall)	ARAG445	Internship	3	Internship
	ARAG485	Senior Project	3	Training
	ELECTIVE	Student choice	3	Free Elective
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
			12	