


Department of Integrative Agriculture
Bachelor of Science in Marine Fisheries and Animal Science Model Study Plan (2022-2023 Cohort onwards)
Concentration: Marine Fisheries and Animal Science
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
	ARAG205	Introduction to Fish & Animal Science	3	Specialization
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
			15	
Year 1 2 (Spring)	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	ARAG310	Agricultural Technology Transfer	3	Specialization
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
			15	
Year 2 3 (Fall)	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	ARAG220	Natural Resources	3	Specialization
	BIOL210	Animal Biology	3	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	Elective	Student choice	3	Free Elective
			15	
Year 2 4 (Spring)	CHEM283	Biochemistry for Non-Majors	3	Specialization
	ARAG319	Anatomy & Physiology of Animals	3	Specialization
	ARAG230	Principles of Fisheries Management	3	Specialization
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	elective	Student choice	3	Minor Elective
			15	
Year 3 5 (Fall)	PHYS105	General Physics I	3	College Requirement
	BIOL270	General Genetics	2	Specialization
	ARAG316	Animal Nutrition	3	Specialization
	ARAG335	Production Medicine	3	Specialization
	ARAG326	Mariculture	3	Concentration
	Elective	Student choice	3	Major Elective
			17	
Year 3 6 (Spring)	STAT235	Statistics for Biology	3	College Requirement
	ARAG325	Fisheries Management and Conservation	3	Concentration
	ARAG314	Animal Breeding & Biotechnology	3	Specialization
	ARAG424	Fish Breeding and Propagation	3	Concentration
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			18	
Year 4 7 (Fall)	ARAG425	Shellfish and Molluscan Aquaculture	3	Concentration
	ARAG440	Seminar in Animal Science	1	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Free Elective
			14	
Year 4 8 (Spring)	ARAG485	Senior Project	3	Specialization
	ARAG445	Internship	3	Internship
	ARAG434	Reproductive Physiology	3	Specialization
	ELECTIVE	Student choice	3	Minor Elective
			12	


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Semester	Course Code	Course Title	CH	Course type
Year 1 1 (Spring)	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	ARAG310	Agricultural Technology Transfer	3	Specialization
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
			15	
Year 2 2 (Fall)	CHEM111	General Chemistry I	3	Specialization
	ARAG205	Introduction to Fish & Animal Science	3	Specialization
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
			15	
Year 2 3 (Spring)	BIOL210	Animal Biology	3	Specialization
	ARAG319	Anatomy & Physiology of Animals	3	Specialization
	ARAG314	Animal Breeding & Biotechnology	3	Specialization
	ARAG230	Principles of Fisheries Management	3	Specialization
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
			18	
Year 2 4 (Fall)	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	ARAG220	Natural Resources	3	Specialization
	ARAG326	Mariculture	3	Concentration
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	ELECTIVE	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			15	
Year 3 5 (Spring)	CHEM283	Biochemistry for Non-Majors	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	ARAG325	Fisheries Management and Conservation	3	Concentration
	ARAG424	Fish Breeding and Propagation	3	Concentration
	Elective	Student choice	3	Major Elective
			15	
Year 3 6 (Fall)	PHYS105	General Physics I	3	College Requirement
	BIOL270	General Genetics	2	Specialization
	ARAG316	Animal Nutrition	3	Specialization
	ARAG335	Production Medicine	3	Specialization
	ELECTIVE	Student choice	3	Major elective
	ELECTIVE	Student choice	3	Minor Elective
			17	
Year 4 7 (Spring)	ARAG434	Reproductive Physiology	3	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Minor Elective
	Elective	Student choice	3	Free Elective
			12	
Year 4 8 (Fall)	ARAG425	Shellfish and Molluscan Aquaculture	3	Concentration
	ARAG440	Seminar in Animal Science	1	Specialization
	ARAG485	Senior Project	3	Specialization
	ARAG445	Internship	3	Internship
	ELECTIVE	Student choice	3	Free Elective
			13	

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For Students Admitted to the University in the Fall Semester

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	Semester	Course Code	Course Title	CH	Course type
Year 1	1 (Fall)	CHEM111	#REF!	###	Specialization
		ARAG205	#REF!	###	Specialization
		ESPU106	#REF!	###	Gen Ed Course (Cluster 1: Area 2: English Communication)
		ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
		Elective	#REF!	###	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
				###	
Year 2	2 (Spring)	BIOC100	#REF!	###	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
		MATH105	#REF!	###	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
		ARAG310	#REF!	###	Specialization
		PHI180	#REF!	###	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
		GESU121	#REF!	###	Gen Ed Course (Cluster 3: Area 2: Sustainability)
				###	
Year 3	3 (Fall)	CHEM282	#REF!	###	Specialization
		ARAG220	#REF!	###	Specialization
		ARAG322	#REF!	###	Concentration
		HSS105	#REF!	###	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
		Elective	#REF!	###	Free Elective
				###	
Year 4	4 (Spring)	CHEM283	#REF!	###	Specialization
		ARAG319	#REF!	###	Specialization
		ARAG435	#REF!	###	Concentration
		ARAG230	#REF!	###	Specialization
		GEIE222	#REF!	###	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
				###	
Year 5	5 (Fall)	PHYS105	#REF!	###	College Requirement
		BIOL270	#REF!	###	Specialization
		ARAG316	#REF!	###	Specialization
		ARAG335	#REF!	###	Specialization
		Elective	#REF!	###	Major Elective
		Elective	#REF!	###	Major Elective
Year 6	6 (Spring)	STAT235	#REF!	###	College Requirement
		BIOL210	#REF!	###	Specialization
		ARAG314	#REF!	###	Specialization
		ARAG318	#REF!	###	Concentration
		GEIT112	#REF!	###	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
		ELECTIVE	#REF!	###	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Year 7	7 (Fall)	ARAG432	#REF!	###	Concentration
		ARAG440	#REF!	###	Specialization
		Elective	#REF!	###	Major Elective
		Elective	#REF!	###	Major Elective
		Elective	#REF!	###	Free Elective
				###	
Year 8	8 (Spring)	ARAG485	#REF!	###	Specialization
		ARAG445	#REF!	###	Internship
		ARAG434	#REF!	###	Specialization
		ELECTIVE	#REF!	###	Major Elective
				###	

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Semester	Course Code	Course Title	CH	Course type
Year 1 1 (Spring)	BIOC100	#REF!	###	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	MATH105	#REF!	###	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	ARAG310	#REF!	###	Specialization
	PHI180	#REF!	###	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
	GESU121	#REF!	###	Gen Ed Course (Cluster 3: Area 2: Sustainability)
Year 1 2 (Fall)	CHEM111	#REF!	###	Specialization
	ARAG205	#REF!	###	Specialization
	ESPU106	#REF!	###	Gen Ed Course (Cluster 1: Area 2: English Communication)
	ISLM100/ISLM101	Islamic Culture/Biography of the Prophet "Sira"	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
	ELECTIVE	#REF!	###	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
Year 2 3 (Spring)	STAT235	#REF!	###	College Requirement
	ARAG319	#REF!	###	Specialization
	ARAG314	#REF!	###	Specialization
	ARAG230	#REF!	###	Specialization
	HSS105	#REF!	###	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	Elective	#REF!	###	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Year 2 4 (Fall)	CHEM282	#REF!	###	Specialization
	ARAG220	#REF!	###	Specialization
	ARAG322	#REF!	###	Concentration
	GEIE222	#REF!	###	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
	GEIT112	#REF!	###	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
Year 3 5 (Spring)	CHEM283	#REF!	###	Specialization
	BIOL210	#REF!	###	Specialization
	ARAG435	#REF!	###	Concentration
	ARAG318	#REF!	###	Concentration
	Elective	#REF!	###	Major Elective
Year 3 6 (Fall)	PHYS105	#REF!	###	College Requirement
	BIOL270	#REF!	###	Specialization
	ARAG316	#REF!	###	Specialization
	ARAG335	#REF!	###	Specialization
	ELECTIVE	#REF!	###	Major elective
	ELECTIVE	#REF!	###	Major Elective
Year 4 7 (Spring)	ARAG434	#REF!	###	Specialization
	Elective	#REF!	###	Major Elective
	Elective	#REF!	###	Free Elective
	Elective	#REF!	###	Major Elective
Year 4 8 (Fall)	ARAG432	#REF!	###	Concentration
	ARAG440	#REF!	###	Specialization
	ARAG485	#REF!	###	Specialization
	ARAG445	#REF!	###	Internship
	ELECTIVE	#REF!	###	Free Elective

Department of Integrative Agriculture
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	Semester	Course Code	Course Title	CH	Course type
Year 1	1 (Fall)	CHEM111	General Chemistry I	3	Specialization
		ARAG205	Introduction to Fish & Animal Science	3	Specialization
		GEEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
		GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
		GEIT113	Introduction to Artificial Intelligence	3	Gen. Ed. Theme 3: Innovation
Year 2	2 (Spring)			15	
		BIOC100	Basic Biology I	3	College Requirement
		MATH105	Calculus I	3	College Requirement
		ARAG230	Principles of Fisheries Management	3	Specialization
		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
Year 3	3 (Fall)	GESU121	Sustainability	3	Gen. Ed. Theme 5: Sustainability
				15	
		CHEM282	Organic Chemistry for Non-Majors	3	Specialization
		ARAG220	Natural Resources	3	Specialization
		ARAG319	Anatomy & Physiology of Animals	3	Specialization
Year 4	4 (Spring)	Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10
		Elective	Student choice	3	Free Elective
				15	
		CHEM283	Biochemistry for Non-Majors	3	Specialization
		ARAG325	Fisheries Management and Conservation	3	Specialization
Year 5	5 (Fall)	BIOL210	Animal Biology	3	Specialization
		ARAG310	Agricultural Technology Transfer	3	Specialization
		Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10
				15	
		PHYS105	General Physics I	3	College Requirement
Year 6	6 (Spring)	BIOL270	General Genetics	2	Specialization
		ARAG316	Animal Nutrition	3	Specialization
		ARAG335	Production Medicine	3	Specialization
		Elective	Student choice	3	Major Elective
		Elective	Student choice	3	Concentration Elective
Year 7	7 (Fall)			17	
		STAT235	Statistics for Biology	3	College Requirement
		ARAG425	Shellfish and Molluscan Aquaculture	3	Concentration
		ARAG314	Animal Breeding & Biotechnology	3	Specialization
		Elective	Student choice	3	Major Elective
Year 8	8 (Spring)	Elective	Student choice	3	Concentration Elective
		Elective	Student choice	3	Major Elective
				18	
		ARAG424	Fish Breeding and Propagation	3	Concentration
		ARAG434	Reproductive Physiology	3	Specialization
Year 9	9 (Fall)	Elective	Student choice	3	Major Elective
		ARAG433	Fish Nutrition	3	Specialization
		Elective	Student choice	3	Free Elective
				15	
		ARAG485	Senior Project	3	Specialization
Year 10	10 (Spring)	ARAG445	Internship	3	Internship
		ARAG440	Seminar in Animal Science	1	Specialization
		Elective	Student choice	3	Concentration Elective
				10	

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	Semester	Course Code	Course Title	CH	Course type
Year 1	1 (Fall)	CHEM111	General Chemistry I	3	Specialization
		ARAG205	Introduction to Fish & Animal Science	3	Specialization
		GEEM110	Contemporary Emirati Studies	3	Gen. Ed. Theme 1: UAE National Identity
		GEAE101	Academic English for Humanities and STEM	3	Gen. Ed. Theme 2: Academic Language Proficiency
		GEIT113	Introduction to Artificial Intelligence	3	Gen. Ed. Theme 3: Innovation
				15	
Year 1	2 (Spring)	BIOC100	Basic Biology I	3	Specialization
		MATH105	Calculus I	3	Specialization
		ARAG310	Agricultural Technology Transfer	3	Specialization
		GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen. Ed. Theme 4: Entrepreneurship
		GESUI21	Sustainability	3	Gen. Ed. Theme 5: Sustainability
				15	
Year 2	3 (Fall)	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
		ARAG220	Natural Resources	3	Specialization
		ARAG319	Anatomy & Physiology of Animals	3	Specialization
		Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10
		Elective	Student choice	3	Free Elective
				15	
Year 2	4 (Spring)	CHEM283	Biochemistry for Non-Majors	3	Specialization
		ARAG322	Introductory Poultry Production	3	Specialization
		BIOL210	Animal Biology	3	Specialization
		ARAG230	Principles of Fisheries Management	3	Specialization
		Elective	Student choice	3	Gen. Ed. Theme 6 or 7 or 8 or 9 or 10
				15	
Year 3	5 (Fall)	ARAG318	Camel Management	3	Specialization
		BIOL270	General Genetics	2	Specialization
		ARAG316	Animal Nutrition	3	Specialization
		ARAG335	Production Medicine	3	Specialization
		Elective	Student choice	3	Major Elective
		Elective	Student choice	3	Concentration Elective
Year 3	6 (Spring)	STAT235	Statistics for Biology	3	College Requirement
		ARAG435	Egg Production	3	Concentration
		ARAG314	Animal Breeding & Biotechnology	3	Specialization
		PHYS105	General Physics I	3	College Requirement
		Elective	Student choice	3	Major Elective
		Elective	Student choice	3	Major Elective
Year 4	7 (Fall)	ARAG432	Sheep and Goat Production	3	Concentration
		ARAG434	Reproductive Physiology	3	Specialization
		Elective	Student choice	3	Major Elective
		ARAG423	Dairy Cattle Management	3	Concentration
		Elective	Student choice	3	Free Elective
				15	
Year 4	8 (Spring)	ARAG485	Senior Project	3	Specialization
		ARAG445	Internship	3	Internship
		ARAG440	Seminar in Animal Science	1	Specialization
		Elective	Student choice	3	Concentration Elective
				10	