

Department of Food Science

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

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)	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
	CHEM111	General Chemistry I	3	Specialization
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1: Area 2: English Communication)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
			15	
Year 1 2 (Spring)	FDSC260	Principles of Food Science	3	Specialization
	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	CHEM112	General Chemistry II	2	Specialization
	CHEM115	General Chemistry Lab	1	Specialization
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)	
			15	
Year 2 3 (Fall)	BIOE230	Microbiology	3	Specialization
	FDSC355	Food Processing	3	Specialization
	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	FDSC319	Food packaging	3	Specialization
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
			15	
Year 2 4 (Spring)	FDSC340	Food Microbiology	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	CHEM283	Biochemistry for Non-Majors	3	Specialization
	FDSC347	Food Process Engineering I	3	Specialization
	Elective	Student choice	3	Major Elective
			15	
Year 3 5 (Fall)	ARAG323	Post-Harvest Physiology of Plant and Animal Systems	3	Specialization
	FDSC309	Sensory evaluation	3	Specialization
	FDSC350	Food Chemistry	3	Specialization
	FDSC351	Food Plant Sanitation	3	Specialization
	PHYS105	General Physics I	3	Specialization
	Elective	Student choice	3	Major Elective
			18	
Year 3 6 (Spring)	FDSC453	Quality Control and Assurance	3	Specialization
	FDSC450	Food Analysis	3	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)	
			18	
Year 4 7 (Fall)	FDSC480	Senior Project	3	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
			15	
Year 4 8 (Spring)	FDSC454	Food Laws	2	Specialization
	FDSC470	Current Issues in Food Science	2	Specialization
	NUTR301	Human Nutrition	2	Specialization
	FDSC425	Internship	3	Specialization
			9	

Department of Integrative Agriculture

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

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)	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	CHEM111	General Chemistry I	3	Specialization
	ESPU106	Introduction to Academic English For Food & Agriculture	3	Gen Ed Course (Cluster 1 Area 2: English Communication)
	MATH105	Calculus I	3	Gen Ed Course (Cluster 1: Area 5: Quantitative Reasoning)
	PHI180	Critical Thinking	3	Gen Ed Course (Cluster 1: Area 4: Critical Thinking)
			15	
Year 1 2 (Fall)	FDSC260	Principles of Food Science	3	Specialization
	BIOC100	Basic Biology I	3	Gen Ed Course (Cluster 3: Area 1: Natural Sciences)
	CHEM112	General Chemistry II	2	Specialization
	CHEM115	General Chemistry Lab	1	Specialization
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 2: Social and Behavioral Sciences)
			12	
Year 2 3 (Spring)	BIOE230	Microbiology	3	Specialization
	FDSC355	Food Processing	3	Specialization
	CHEM282	Organic Chemistry for Non-Majors	3	Specialization
	FDSC309	Sensory evaluation	3	Specialization
	Elective	Student choice	3	Gen Ed Course (Cluster 2: Area 1: Humanities and Fine Arts)
			15	
Year 2 4 (Fall)	FDSC319	Food packaging	3	Specialization
	STAT235	Statistics for Biology	3	College Requirement
	CHEM283	Biochemistry for Non-Majors	3	Specialization
	ARAG323	Post-Harvest Physiology of Plant and Animal Systems	3	Specialization
	FDSC350	Food Chemistry	3	Specialization
			15	
Year 3 5 (Spring)	FDSC340	Food Microbiology	3	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	FDSC450	Food Analysis	3	Specialization
	ISLM100	Islamic Culture	3	Gen Ed Course (Cluster 2: Area 4: Islamic Culture)
Elective	Student choice	3	Free Elective	
			18	
Year 3 6 (Fall)	FDSC453	Quality Control and Assurance	3	Specialization
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Major Elective
	Elective	Student choice	3	Free Elective
	GEIE222	Fundamentals of Innovation and Entrepreneurship	3	Gen Ed Course (Cluster 1: Area 1: Innovation and Entrepreneurship)
FDSC351	Food Plant Sanitation	3	Specialization	
			18	
Year 4 7 (Spring)	FDSC480	Senior Project	3	Specialization
	Elective	Student choice	3	Major Elective
	GEIT112	Fourth Industrial Revolution	3	Gen Ed Course (Cluster 1: Area 3: Fourth Industrial Revolution)
	GESU121	Sustainability	3	Gen Ed Course (Cluster 3: Area 2: Sustainability)
	HSS105	Emirates Studies	3	Gen Ed Course (Cluster 2: Area 3: Emirates Society)
			15	
Year 4 8 (Fall)	FDSC454	Food Laws	2	Specialization
	FDSC470	Current Issues in Food Science	2	Specialization
	NUTR301	Human Nutrition	2	Specialization
	FDSC425	Internship	3	Internship
			9	