



Degree and Study Plan

College: Agricultural & Marine Sciences
Department: Food Science and Nutrition
Cohort: 2020
Degree: Bachelor of Science
Major: Human Nutrition

Summary of Credits:

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)	29
See list B	
College Electives (CE)	9
See list C	
Departmental Requirements (DR)	
See list D	
Departmental Electives (DE)	
See list E	
Major Requirements (AR)	66
See list F	
Major Electives (AE)	9
See list G	
Specialization Requirements (SR)	
See list H	
Specialization Electives (SE)	
See list I	
Minor Requirements (IR)	3
See list J	
Minor Electives (IE)	15
See list K	
TOTAL	125

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HoD: **Dr. Mohamed Al-Khusaibi**

Date:

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

Date:

Admission and Registration:

Date:

DEPARTMENT OF FOOD SCIENCE AND NUTRITION

HUMAN NUTRITION

Study Plan: for Cohort 2020

Sem.	Course Code	Course Title	Cr.	Pre-req./Co-req.*	Cat.
ONE FALL		Foundation Program	0		UR
	TOTAL		0		
TWO SPRING	ARAB1060	Arabic for Arabic speakers ¹	2		UR
	CAMS2000	Intro. CAMS	0		CR
	CAMS2003	Intro. to Food & Resource Economics	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CR
	CHEM2101, BIOL2101 or PHYS2101	General Chemistry I, General Biology I or General Physics 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
		University Elective	2		UE
TOTAL		14			
THREE FALL	HIST1010	Oman & Islamic Civilization	2	=ISLM1010	UR
	CHEM2101, BIOL2101 or PHYS2101	General Chemistry I, General Biology I or General Physics I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604), FPMT(0105 or 0109)	CR
	LANC2146	Academic Writing in Science	3	LANC(2145 or 2142)	CR
		University Elective	2		UE
		University Elective	2		UE
	FSHN2301	Introduction to Human Nutrition	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CE
TOTAL		16			
FOUR SPRING	SOCY1005	Contemporary Omani State & People ²	2		UR
	CAMS3000	Seminar & Presentation Skills	2	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2141	CR
	CAMS3001	Biometry & Experimental Design in AMS	3	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2141	CR
	CHEM2101, BIOL2101 or PHYS2101	General Chemistry I, General Biology I or General Physics I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604), FPMT(0105 or 0109)	CR
	FSHN2101	Principles of Food Science	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	CE
	FSHN2102	Prin. of Food Science – Application Lab	2	FSHN2101 or FSHN2301	AR
TOTAL		16			
FIVE FALL	LANC2034	Academic English for Nutrition	3	LANC2146	AR
	FSHN2302	Principles of Biochemistry	3	BIOL2101, CHEM2101	AR
	FSHN3305	Macronutrients in Human Nutrition	3	FSHN2301, (BIOL2101 or CHEM2101)	AR
	BIOL3441	Microbiology	3	BIOL2101	AR
	FSHN2303	Anatomy & Physiology I with Lab	4	FSHN2301	AR
TOTAL		16			

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

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

SIX SPRING	NREC3107	Food Service Systems – Operation Management	3	FSHN (2101, 2102) or NREC3101	AR
	PSYC2106	Psychology	2		AR
	FSHN2353	Anatomy & Physiology II with Lab	4	FSHN2303	AR
	FSHN3306	Micronutrients in Human Nutrition	3	FSHN2301, (BIOL2101 or CHEM2101)	AR
	FSHN3307	Nutrition Assessment & Diet Planning	3	FSHN (2301, 2302)	AR
TOTAL			15		

SEVEN FALL	FSHN3304	Food Service Systems – Production & Purchasing	3	FSHN (2101, 2102), CAMS2003	AR
	FSHN3302	Clinical Biochemistry	3	FSHN 2302	AR
	FSHN3309	Life Cycle Nutrition	3	FSHN (2301, 3307)	AR
	NURS1009	Communication/Group Dynamics	2	Check with Collage of Nursing	AR
	PHAR2001	Basics of Pharmacology and Nutrition	1	CHEM2101	AR
	FSHNXXXX	Major Elective: List G	3	Check pre-requisites	AE
TOTAL			15		

EIGHT SPRING	FSHN4301	Medical Nutrition Therapy I	3	FSHN (2353, 3302, 3305, 3306, 3307, 3309), LANC (2034 or 2033), PSYC2106, PHAR2001, NURS (1009 or 4020)	AR
	FSHN4306	Community Nutrition	3	FSHN(2301, 3307) + CR*	AR
	FSHN4307	Nutrition Care Process	2	FSHN3307 + CR*	AR
	NURS4020	Health Promotion & Education	2	Check with Collage of Nursing	AR
	FSHN3111	Public Sanitation	3	FSHN2101, BIOL3441	AR
	FSHNXXXX	Major Elective: List G	3	Check pre-requisites	AE
TOTAL			16		

SUMMER	FSHN3801	Nutrition Practicum I	1	FSHN (2102, 3111, 3304), NREC3107 - Manual Registration	AR
	FSHN3802	Nutrition Practicum II	1	FSHN (4301, 4306, 4307) - Manual Registration - Placement ONLY after completion of FSHN3801	AR
	TOTAL			2	

NINE FALL	CAMS4001	Management & Business Skills	3	CR*	CR
		College Elective	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)	
	FSHN2313	Sociology	2		AR
	FSHN3803	Nutrition Practicum III	1	FSHN (3801, 3802) Manual Registration	AR
	FSHN4308	Medical Nutrition Therapy II	3	FSHN (4301, 4307), NURS (4020, 1009) + CR*	AR
	FSHNXXXX	Major Elective: List G	3	Check pre-requisites	AR
TOTAL			15		

* CR - CAMS college requirement courses are BIOL2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001, CHEM2101, PHYS(2101 or 2107).

DEPARTMENT OF FOOD SCIENCE AND NUTRITION

HUMAN NUTRITION

LIST B: College Requirements (29 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), FPMT(0105 or 0109)	
CAMS2000	Introduction to Agricultural and Marine Sciences	0		
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), LANC2141	
CAMS3001	Biometry and Experimental Design in AMS	3	CAMS2000, FPCS(0101 or 0102), FPMT(0105 or 0109), LANC2141	
CAMS4001	Management and Business Skills	3	CR*	
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	LANC(2145 or 2142)	
PHYS2101	General Physics I	4	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604), FPMT(0105 or 0109)	

LIST C: College Electives (9 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
PLNT2515	Introduction to Plant Sciences	3		CROP2510, CROP2515
FSHN2101	Principles of Food Science	3		FSHN2071
FSHN2301	Introduction to Human Nutrition	3		
MASF2003	Introduction to Marine Science and Fisheries	3		
SWAE2001	Introduction to Agricultural Engineering	3		
SWAE2201	Introduction to Soils and Water	3		

* CR - CAMS college requirement courses are BIOL2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001, CHEM2101, PHYS(2101 or 2107).

DEPARTMENT OF FOOD SCIENCE AND NUTRITION

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LIST F: Major Requirements (66 Credits)

Course Code	Course Title	Cr.	Pre-Requisite	Equivalents
BIOL3441	Microbiology	3	BIOL2101	
FSHN2102	Principles of food science – Application lab	2	FSHN2301, FPEL(0560 or 0600 or	
FSHN2302	Principles of Biochemistry	3	BIOL2101, CHEM2101	FSHN2001
FSHN2303	Anatomy and Physiology I	4	FSHN2301	
FSHN2353	Anatomy and Physiology II	4	FSHN2303	
FSHN2313	Sociology	2	-	
PSYC2106	Psychology	2	-	
FSHN3111	Public Sanitation	3	FSHN2101, BIOL3441	FSHN4010
FSHN3302	Clinical Biochemistry	3	FSHN2302	
FSHN3304	Food Service Systems – Production & Purchasing	3	FSHN (2101, 2102), CAMS2003	FSHN4305
FSHN3305	Macronutrients in Human Nutrition	3	FSHN2301, (BIOL2101 or CHEM2101)	FSHN3444
FSHN3306	Micronutrients in Human Nutrition	3	FSHN2301, (BIOL2101 or	FSHN3333
FSHN3307	Nutrition Assessment and Diet Planning	3	FSHN (2301, 2302)	FSHN3303
FSHN3309	Life Cycle Nutrition	3	FSHN (2301, 3307)	FSHN4303
FSHN3801	Nutrition Practicum I	1	FSHN (2102, 3111, 3304), NREC3107	
FSHN3802	Nutrition Practicum II	1	FSHN (4301, 4306, 4307) Manual Registration Placement ONLY after completion of FSHN3801	
FSHN3803	Nutrition Practicum III	1	FSHN (3801, 3802) Manual Registration	
FSHN4301	Medical Nutrition Therapy I	3	FSHN (2353, 3302, 3305, 3306, 3307, 3309), LANC (2034 or 2033), PSYC2106, PHAR2001, NURS1009 or 4020)	FSHN3401, FSHN3308
FSHN4306	Community Nutrition	3	FSHN(2301, 3307) + CR*	
FSHN4307	Nutrition Care Process	2	FSHN3307 + CR*	
FSHN4308	Medical Nutrition Therapy II	3	FSHN (4301, 4307), NURS(4020, 1009) + CR*	FSHN4401
LANC2034	Academic English for Nutrition	3	LANC2146	LANC2033
NREC3107	Food Service Systems - Operation Management	3	FSHN (2101, 2102) or NREC3101	
NURS1009	Communication & Group Dynamics	2	Check with Collage of Nursing	
NURS4020	Health Promotion and Education	2	Check with Collage of Nursing	
PHAR2001	Basics of Pharmacology and Nutrition	1	CHEM2101	PHAR2004

LIST G: Major Electives (9 Credits)**

Course Code	Course Title	Cr.	Pre-Requisite	Equivalents
CHEM3323	Organic Chemistry for CAMS	4	CHEM2101	
FSHN3103	Food Analysis	3	CHEM3323, FSHN2302	FSHN3072
FSHN3104	Food Chemistry I	3	CHEM3323, FSHN2302	FSHN3071
FSHN3105	Food Microbiology I	3	BIOL3441	FSHN3073
FSHN3109	Sensory Evaluation of Food	3	FSHN2101	FSHN4271
FSHN3112	Functional Foods	3	FSHN (2101 or 2301)	
FSHN4102	Food Laws and Regulations	3	FSHN2101 + CR*	FSHN4172
FSHN4309	Nutritional Toxicology	3	FSHN(2301 or 3104) + CR*	
FSHN4310	Nutrigenomics	3	FSHN3307 + CR*	
FSHN4311	Sports Nutrition	3	FSHN3307 + CR*	
FSHN4902	Research Project in Food Science and Nutrition	3	After 87 Credits, GPA>2.0 + CR*	
NREC3012	Economics of Food Consumption and Policy	3	CAMS2003	
NREC4103	Agribusiness Entrepreneurship	3	CR*	

* CR - CAMS college requirement courses which are BIOL2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001, CHEM2101, PHYS(2101 or 2107).

** Courses from any Department (preferably related to a Minor) of the College of Agricultural and Marine Sciences or another College, may be selected with the approval of Academic Advisor, Head of Department and Assistant Dean of Undergraduate Studies. **No course will be approved without filling the substitution form and getting all necessary approvals prior registering any course not listed in the above degree plan.**

DEPARTMENT OF FOOD SCIENCE AND NUTRITION**HUMAN NUTRITION****LIST J: Minor Requirements (6 Credits)**

Course Code	Course Title	Cr.	Pre-Requisite
FSHN2301	Introduction to Human Nutrition	3	FPEL(0560 or 0600 or 0601 or 0602 or 0603 or 0604)
FSHN2302	Principles of Biochemistry	3	BIOL2101, CHEM2101

LIST K: Minor Electives (12 Credits)

Course Code	Course Title	Cr.	Pre-Requisite
FSHN3305	Macronutrients in Human Nutrition	3	FSHN2301, (BIOL2101 or CHEM2101)
FSHN3306	Micronutrients in Human Nutrition	3	FSHN2301, (BIOL2101 or CHEM2101)
FSHN3307	Nutrition Assessment and Diet Planning	3	FSHN (2301, 2302)
FSHN3111	Public Sanitation***	3	FSHN2101, BIOL3441
FSHN3309	Life Cycle Nutrition	3	FSHN (2301, 3307)
FSHN4306	Community Nutrition	3	FSHN(2301, 3307) + CR*

* CR - CAMS college requirement courses which are BIOL2101, CAMS2000, CAMS2003, CAMS3000, CAMS3001, CHEM2101, PHYS(2101 or 2107).

*** Students who passes the course FSHN3107 Food Sanitation and Quality Control cannot take the course FSHN3111 Public Sanitation.