

# Nutritional Sciences

## University of Florida -College of Agricultural and Life Sciences

Nutritional Sciences graduates have entered medical, dental, pharmacy, optometry, veterinary, physician assistant and other professional programs. The curriculum emphasizes the basic sciences and includes prerequisite courses for most professional schools. Courses in nutritional sciences emphasize the role of nutrition in growth, development, health, disease risk reduction and disease treatment. The curriculum is excellent preparation for graduate study in nutrition, health and other science fields.

To remain on track, first year students must complete the appropriate critical-tracking courses, which appear in bold, with a 2.5 GPA or better. Students are required to complete a Quest 1 course in semester 1 or 2.

Fall	Credits	Spring	Credits
<b>CHM 2045 &amp; 2045L General Chemistry I (3) and Laboratory (1) (GE-P)</b>	<b>4</b>	<b>CHM 2046 &amp; 2046L General Chemistry II (3) and Laboratory (1) (GE-P)</b>	<b>4</b>
<b>MAC 2311 Analytic Geometry &amp; Calculus I (GE-M)</b>	<b>4</b>	Quest 1 (GE-H)	3
Composition (GE-C) (WR)	3	Economics: ECO 2013, ECO 2023, or AEB 2014	3-4
Humanities w/Diversity Designation (GE-H/D)	3	Elective	4
Elective	1		
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>14-15</b>
Fall	Credits	Spring	Credits
<b>BSC 2010 &amp; 2010L Integrated Principles of Biology 1 (3) and Laboratory (1) (GE-B)</b>	<b>4</b>	<b>BSC 2011 &amp; 2011L Integrated Principles of Biology 2 (3) and Laboratory (1) (GE-B)</b>	<b>4</b>
+ CHM2210 Organic Chemistry I	3	CHM 2211 Organic Chemistry II (3) and CHM2211 Lab (2)	5
STA 2023 Introduction to Statistics (GE-M)	3	HUN2201 Fundamentals of Human Nutrition	3
Elective	3	Quest 2 w / International Designation (GE-S/N)	3
Composition (GE-C) (WR)	3		
<b>Total</b>	<b>16</b>	<b>Total</b>	<b>15</b>
Fall	Credits	Spring	Credits
<b>PHY 2053 &amp; PHY 2053L Physics 1 (4) and Lab (1)</b>	<b>5</b>	<b>PHY 2054 &amp; PHY 2054L Physics 2 (4) and Lab (1)</b>	<b>5</b>
BCH 3025 Fundamentals of Biochemistry or BCH 4024 Biochemistry and Molecular Biology	4	HUN3403 Nutrition thru the Life Cycle	2
FOS3042 Intro to Food Science	3	Genetics: AGR 3303 (3) or PCB 3063 (4)	3-4
AEC3030C Effective Oral Communication or SPC2608 Intro to Public Speaking	3	Elective	5
<b>Total</b>	<b>15</b>	<b>Total</b>	<b>15-16</b>
Fall	Credits	Spring	Credits
HUN4445 Nutrition and Disease I	2	HUN4446 Nutrition and Disease II	3
** Approved Science Course	3-4	HUN 4221 Nutrition and Metabolism	3
** Approved Science Lab	1-2	MCB3020 and MCB3020L Biology of Microorganisms and Lab	4
PCB4723C Phys./Molecular Biology of Animals (5) <u>OR</u> APK2105C Applied Human Physiology (4)	4-5	Advanced Communication Writing: AEC3033C, ENC2210 or ENC3254 (WR)	3
Elective	4	Elective	3
<b>Total</b>	<b>14-17</b>	<b>Total</b>	<b>16</b>

**Minimum credits required for graduation: 120 credits**

+ A grade of C or better must be attained within two attempts (including withdrawals) in CHM2210.

\*\*Please refer to other side for approved science courses and labs

# Nutritional Sciences

The Nutritional Sciences curriculum is designed for pre-professional students who plan to enter medical, dental, pharmacy, optometry or other health-related professional schools or graduate school. The curriculum develops a strong, broad background in biology, chemistry, and math. Its requirements closely match the prerequisites for most professional schools, and it provides a background in nutrition that is an asset for any health profession. It also provides an excellent foundation for graduate study in nutrition, health, and other science fields. Graduation requires 120 credits, and ALL courses listed below are required. Students are responsible for completing necessary prerequisites before enrolling in required courses; prerequisite information can be found in Undergraduate Catalog course descriptions, online.

## CURRICULUM

### FSHN Courses

HUN2201	Fundamentals of Human Nutrition (3) F/S/SS-B
HUN3403	Nutrition thru the Life Cycle (2) F/S/SS-A
HUN4221	Nutrition and Metabolism (3) F/S
HUN4445	Nutrition and Disease I (2) F/S
HUN4446	Nutrition and Disease II (3) F/S
FOS3042	Intro to Food Science (3) F/S/SS-A

### Biology Courses

BSC2010	Principles of Biology I (3)
BSC2010L	Principles of Biology Lab (1)
BSC2011	Principles of Biology II (3)
BSC2011L	Principles of Biology II Lab (1)

### Chemistry Courses

CHM2045	General Chemistry (3)
CHM2045L	General Chemistry Lab (1)
CHM2046	General Chemistry II (3)
CHM2046L	General Chemistry II Lab (1)
+CHM2210	Organic Chemistry I (3)
CHM2211	Organic Chemistry II (3)
CHM2211L	Organic Chemistry II Lab (2)
BCH4024	Biochem./Molecular Bio (4)
OR	
BCH3025	Fund. Biochemistry-web (4)

+ C or better in two attempts including withdrawals

### Advanced Communication (CALS Requirement)

AEC3030C	Oral Communications (3)
SPC2608	OR Intro to Public Speaking (3)
AEC3033C	Advanced Comm. Writing (3)
OR	
ENC2210	Technical Writing (3)
OR	
ENC3254	Professional Communications (3)

### Economics (choose one)

AEB2014	Economic Issues Food & You (3)
ECO2013	Macroeconomics (4)
ECO2023	Microeconomics (4)

### Math and Statistics

STA2023	Intro to Statistics (3)
MAC2311	Calculus & Analytical Geometry (4)

### Other Science Courses

MCB3020	Biology of Microorganisms (3)
MCB3020L	Biology of Microorganisms Lab (1)
PHY2053	Physics I (4)
PHY2053L	Physics I Lab (1)
PHY2054	Physics II (4)
PHY2054L	Physics II Lab (1)
AGR3303	Genetics (3)
PCB3063	Genetics (4)
MCB4304	Genetics of Microorganisms (3)
PCB4522	Molecular Genetics (3)
PCB4723C	Phys/Molec Biology of Animals (5)
APK2105C	Applied Human Physiology (4)

### Upper Level Science Course w/Lab

ZOO3713C	Functional Vertebrate Anatomy (4)
ANS3006/L	Intro to Animal Sciences & Lab (3/1)
BOT3503/L	Physiology & Molecular Biology of Plants
BSC4434C	Bioinformatics
CHM3120/L	Analytical Chemistry & Lab (3/1)
FAS4202C	Biology of Fishes (4)
FOS4321C	Food Analysis (4) F
FOS4222/L	Food Microbiology & Lab (3/2) S
FOS4311/L	Food Chemistry & Lab (3/1) S
ZOO3603C	Evolution Developmental Biology (4)
HUN4813C	Lab Techniques in Molecular Nutrition (3)

### OR two from below (one lab permitted)

ANS3440 Animal Nutrition	CHM4300L Lab in Biochemistry and Molecular Biology (2)	
APK3163 Sports Nutrition (3)		
CHM4034 Advance Biochemistry (4)		
CHM4304 Chem. Asp. Cell Control (3)		
MCB4203 Bact/Viral Pathogens (3)		
MCB4503 Virology		
MCB4422 Probiotics (3) (NEW)		
PCB3134 Eukaryotic Cell Structure (3)		
PCB4233 Immunology (3)		
PCB4553 Population Genetics (4)		
PSB3002 Physiological Psych. (3)		
PSB3340 Behavioral Neuroscience (3)		
ZOO4232 Human Parasitology (3)		
FOS4318 Flavor Chemistry (3) F - Even		
		PSY3213L Lab Methods in Psych. (3)

Key to when classes are offered: F=fall, S=spring, SS= summer A, B, C  
Subject to change, please contact advisor

## TRANSFER ENTRANCE REQUIREMENTS

Transfer admission requires a minimum GPA of 3.0 and B grades in all prerequisite courses (in **boldface**), and an overall minimum GPA of 2.00.

## CAREER OPPORTUNITIES

Graduates from this curriculum have entered medical, dental, pharmacy, osteopathic, podiatry, optometry, chiropractic, physician assistant, veterinary and other professional programs. Research oriented students have entered graduate programs in nutrition or biochemistry. Other career opportunities include pharmaceutical sales, extension nutrition education, nutrition policy development, and employment with government agencies. Students should contact the Office of Admissions of the schools in which they are interested for information on the average GPA, MCAT, DAT or other test scores and specific admission dates and policies. (8.20)