## NUTRITION - BS, MOLECULAR AND EXPERIMENTAL TRACK

Nutritional sciences prepares majors with a comprehensive knowledge of the biological and social sciences to understand the relationships between nutrients, food components and human health. Prevention of diseases that are related to lifestyle, particularly diet and nutrition, is a focus of the curriculum. Core courses emphasize the role of nutrients in biochemistry, genetics, physiology, microbiology and immunology that promotes wellness and enhances the quality of life. The major also provides an excellent background for those interested in pursuing graduate degrees in biological, nutritional or food sciences; professional degrees in human or veterinary medicine; degrees in dentistry, pharmacy, physical therapy, nursing, public health and other health professions; or dietetic internships.

The Didactic Program in Dietetics (DPD) and the Graduate Degree/ Dietetic Internship Program are accredited by the Accreditation Council for Education in Nutrition and Dietetics (ACEND). Students who successfully complete the DPD and a dietetic internship are eligible to take the Registration Examination to become a Registered Dietitian (RD).

Three curriculum tracks are offered (General Nutrition, Didactic Program in Dietetics and Molecular and Experimental Nutrition) to provide flexibility in one's chosen career path. The Nutrition major prepares one for graduate school, corporate wellness positions, health promotion programs, the food industry, public health programs, pharmaceutical sales, clinical dietetics, medical and research laboratories, biotechnology firms, government agencies and related fields. For more information, visit https://nutrition.tamu.edu/.

## **Molecular and Experimental Track**

The Molecular and Experimental Track emphasizes a fundamental background in the biological and physical sciences that relate to human health and nutrition. This option offers students the opportunity to develop analytical and critical thinking skills through undergraduate research with department faculty, independent study and study abroad programs, and a science-based curricula that is essential for graduate studies and pre-professional schools. The goal of this track is to enable students to seek employment in specialized science-based fields in the biological or medical sciences, to pursue graduate degrees beyond the baccalaureate or to enter professional schools of medicine, veterinary medicine, dentistry, pharmacy or similar disciplines. See academic advisor for information on application procedures, GPA requirements, specific course listings and eligibility requirements.

## **Program Requirements**

First Year Fall		Semester Credit Hours
BIOL 111	Introductory Biology I	4
CHEM 119	Fundamentals of Chemistry I	4
ENGL 103 or ENGL 104	Introduction to Rhetoric and Composition or Composition and Rhetoric	3
FSTC 210/ NUTR 210	Horizons in Nutrition and Food Science	2

	Semester Credit Hours	16
	on/university-core-curriculum/#creative-	
	o://catalog.tamu.edu/undergraduate/	3
VTPP 425	Pharmacology	
course-descrip		
	College Physics (http://catalog.tamu.edu/undergraduate/	
NUTR 491 PHYS 202	Research College Physics	
NUTR 485	Directed Studies	
	Professions	
HLTH 354	Medical Terminology for the Health	
HLTH 334	Women's Health	
COMM 315	Persuasion	
COMM 315	Interpersonal Communication	
COMM 203	Public Speaking	
BIOL 413	Cell Biology Developmental Biology	
BIOL 413		Ь
Select two of the		6
CHEM 238 POLS 206	Organic Chemistry Laboratory  American National Government	1
CHEM 228	Organic Chemistry I shoretory	3
Spring	Organia Chamiatus II	0
Carina	Semester Credit Hours	17
	(http://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/#american-	3
PHYS 201	College Physics	4
NUTR 203	Scientific Principles of Human Nutrition	3
ENGL 210	Technical and Professional Writing	3
CHEM 237	Organic Chemistry Laboratory	1
Fall CHEM 227	Organic Chemistry I	3
Second Year	Semester Credit Hours	14
	on/university-core-curriculum/	
history)	p://catalog.tamu.edu/undergraduate/	3
•	(http://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/#american-	3
CHEM 120	Fundamentals of Chemistry II	4
BIOL 112	Introductory Biology II	4
Spring	Semester Credit Hours	17
, ,	p://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/	
FSTC 204	n.//actalagetaman.adu/undargraduata/	3
NUTR 204/	Perspectives in Nutrition and Food Science	1

## **Third Year**

	Compoter Credit Hours	12
undergraduate/g	ophy and culture (http://catalog.tamu.edu/ eneral-information/university-core- juage-philosophy-culture) <sup>2</sup>	3
POLS 207	State and Local Government	3
NUTR 301	Nutrition Through Life	3
	or Biomedical Anatomy	
or VIBS 305	T	
BIOL 319	Integrated Human Anatomy and Physiology	4

	Semester Credit Hours	13
Spring		
BIOL 320	Integrated Human Anatomy and Physiology	4
or VTPP 423	II	
	or Biomedical Physiology I	
GENE 301	Comprehensive Genetics	3
GENE 312	Comprehensive Genetics Laboratory	1
NUTR 365	Nutritional Physiology of Vitamins and Minerals	3
Select one of the	following:	3
STAT 301	Introduction to Biometry	
STAT 302	Statistical Methods	
STAT 303	Statistical Methods	
	Semester Credit Hours	14
Fourth Year		
Fall		
BICH 410	Comprehensive Biochemistry I	3
BIOL 351	Fundamentals of Microbiology	4
NUTR 469	Experimental Nutrition Laboratory	3
NUTR 491	Research	4
	Semester Credit Hours	14
Spring		
BICH 411	Comprehensive Biochemistry II	3
BICH 431/ GENE 431	Molecular Genetics	3
CHEM 316	Quantitative Analysis	2
CHEM 318	Quantitative Analysis Laboratory	1
NUTR 475	Nutrition and Physiological Chemistry	3
	rioral science (http://catalog.tamu.edu/	3
undergraduate/general-information/university-core-		
	ial-behavioral-sciences) 2	
	Semester Credit Hours	15

<sup>1</sup> MATH prefix required.

**Total Semester Credit Hours** 

120

 $catalog. tamu. edu/under graduate/general-information/university-corecurriculum/)\ catalog\ page.$ 

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required to meet the Texas A&M University residency requirement.

The Graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/degree-information/cultural-discourse-requirements/). Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences; creative arts; language, philosophy and culture; or electives. For more information on core requirements visit the University Core Curriculum (http://