

BS in Nutritional Science (284325) MAP Sheet

Life Sciences, Nutrition Dietetics and Food Science

For students entering the degree program during the 2017-2018 curricular year.

Nutritional science is an excellent preprofessional sequence which prepares students for further training in medical or dental schools or for graduate study.



University Core and Graduation Requirements				Suggested Sequence of Courses			
University Core Requirements:				FRESHMAN YEAR			
Requirements	#Classes	Hours	Classes	1st Semester		JUNIOR YEAR	
Religion Cornerstones				5th Semester			
Teachings and Doctrine of The Book of Mormon	1	2.0	REL A 275	CHEM 105 (FWSpSu)	4.0	CHEM 481 (FWSp)	3.0
Jesus Christ and the Everlasting Gospel	1	2.0	REL A 250	1st Year Writing (FWSpSu) or A HTG 100 (FWSpSu)	3.0	Civilization 1 elective	3.0
Foundations of the Restoration	1	2.0	REL C 225	NDFS 100 (FWSpSu)	3.0	Nutritional Science elective	3.0
The Eternal Family	1	2.0	REL C 200	PDBIO 120 (FWSp)	3.0	PHSCS 105 (FWSp) (Physical Science)	3.0
The Individual and Society				6th Semester			
American Heritage	1-2	3-6.0	from approved list	Quantitative Reasoning (if needed)	3.0	Religion elective	2.0
Global and Cultural Awareness	1	3.0	from approved list	Religion Cornerstone course	2.0	Total Hours	14.0
Skills				7th Semester			
First Year Writing	1	3.0	from approved list	A HTG 100 (FWSpSu) or 1st Year Writing (FWSpSu)	3.0	Civilization 2 elective	3.0
Advanced Written and Oral Communications	1	3.0	ENGL 316 recommended	CHEM 106 & 107 (FWSpSu)	4.0	ENGL 316 (FWSpSu) (Advanced Writing)	3.0
Quantitative Reasoning	0-1	0-3.0	from approved list	PDBIO 305 (FWSp)	4.0	NDFS 305 (W)	4.0
Languages of Learning (Math or Language)	1	3.0	STAT 121*	STAT 121 (FWSpSu) (Lang. of Learning)	3.0	Arts or Letters elective	3.0
Arts, Letters, and Sciences				8th Semester			
Civilization 1	1	3.0	from approved list	Religion Cornerstone course	2.0	Religion elective (FWSpSu)	2.0
Civilization 2	1	3.0	from approved list	Total Hours	16.0	Total Hours	15.0
Arts	1	3.0	from approved list	SENIOR YEAR			
Letters	1	3.0	from approved list	7th Semester			
Biological Science	1	3.0	NDFS 100*	8th Semester			
Physical Science	2	7.0	CHEM 105*, PHSCS 105*	7th Semester			
Social Science	1	3.0	from approved list	CHEM 351 (FWSp)	3.0	NDFS 435 (FSp)	4.0
Core Enrichment: Electives				8th Semester			
Religion Electives	3-4	6.0	from approved list	CHEM 294 (F)	1.0	Nutritional Science electives	4.0
Open Electives	Variable	Variable	personal choice	MMBIO 240 (FWSp)	3.0	Arts or Letters elective	3.0
*These classes fill both university core and program requirements (15 hours overlap).				8th Semester			
Graduation Requirements:				8th Semester			
Minimum residence hours required		30.0		Religion Cornerstone course	2.0	NDFS 424 (W)	2.0
Minimum hours needed to graduate		120.0		NDFS electives	2-4.0	Nutritional science electives	2-3.0
				Total Hours	14-16.0	Social Science elective	3.0
				4th Semester			
				5th Semester			
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				99th Semester			
				100th Semester			

Note: Students are encouraged to complete an average of 15 credit hours each semester or 30 credit hours each year, which could include spring and/or summer terms. Taking fewer credits substantially increases the cost and the number of semesters to graduate.

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2017-2018 Program Requirements (60 Credit Hours)

<p>REQUIREMENT 1 Complete 6 courses</p> <p>CORE REQUIREMENTS:</p> <p>*NDFS 100 - Essentials of Human Nutrition 3.0</p> <p>NDFS 200 - Nutrient Metabolism 3.0</p> <p>NDFS 294 - Nutrition Research Fundamentals 1.0</p> <p>NDFS 305 - Nutritional Implications of Disease 4.0</p> <p>NDFS 424 - Nutrition Through the Life Cycle 2.0</p> <p>NDFS 435 - Nutritional Biochemistry and Metabolism 4.0</p> <p>REQUIREMENT 2 Complete 7.0 hours from the following course(s)</p> <p>COMPLETE 7 HOURS FROM THE FOLLOWING (AT LEAST ONE COURSE MUST BE NDFS 250, 310, OR 400):</p> <p>HLTH 345 - Principles of Epidemiology 3.0</p> <p>MMBIO 241 - Molecular and Cellular Biology Laboratory 1.0</p> <p>NDFS 250 - Essentials of Food Science 3.0</p> <p>NDFS 251 - Essentials of Food Science Laboratory 1.0</p> <p>NDFS 310 - Nutrition and Metabolism in Sports and Exercise 2.0</p> <p>NDFS 399R - Academic Internship 9.0v</p> <p><i>You may take up to 3 credit hours.</i></p> <p>NDFS 400 - Community Nutrition 3.0</p> <p>NDFS 494R - Undergraduate Research in Nutrition, Dietetics, or Food Sc 3.0v</p> <p><i>You may take up to 3 credit hours.</i></p> <p>PDBIO 360 - Cell Biology 3.0</p> <p>PWS 340 - Genetics 3.0</p> <p>REQUIREMENT 3 Complete 1 course</p> <p>PREREQUISITE TO PDBIO 305, REQUIRED BELOW:</p> <p>PDBIO 210 - Human Anatomy (with virtual lab) 3.0</p> <p>PDBIO 220 - Human Anatomy (with lab) 3.0</p> <p>REQUIREMENT 4 Complete 12 courses</p> <p>(COMPLETE 1 HOUR OF CHEM 353.)</p> <p>*CHEM 105 - General College Chemistry 1 with Lab (Integrated) 4.0</p> <p>CHEM 106 - General College Chemistry 2 3.0</p> <p>CHEM 107 - General College Chemistry Laboratory 1.0</p> <p>CHEM 351 - Organic Chemistry 1 3.0</p> <p>CHEM 352 - Organic Chemistry 2 3.0</p> <p>CHEM 353 - Organic Chemistry Laboratory--Nonmajors 2.0v</p> <p>CHEM 481 - Biochemistry 3.0</p> <p>MMBIO 240 - Molecular Biology 3.0</p> <p>PDBIO 120 - Science of Biology 3.0</p> <p>PDBIO 305 - Human Physiology 4.0</p> <p>*PHSCS 105 - General Physics 1 3.0</p>	<p>*STAT 121 - Principles of Statistics 3.0</p> <p>RECOMMENDED Complete 7 courses</p> <p>CHEM 223 - Quantitative and Qualitative Analysis 4.0</p> <p>HLTH 345 - Principles of Epidemiology 3.0</p> <p>MMBIO 221 - General Microbiology 3.0</p> <p>PDBIO 363 - Advanced Physiology Laboratory 1.0</p> <p>PHSCS 106 - General Physics 2 3.0</p> <p>PHSCS 107 - General Physics Lab 1 1.0</p> <p>PHSCS 108 - General Physics Lab 2 1.0</p> <p>Note: Professional schools and graduate programs may require additional courses not required for the major, such as Phscs 106, 107, 108, or Math 119 or 112. Students should contact the program to which they may apply to determine the specific courses required.</p> <p>THE DISCIPLINE:</p> <p>Nutritional Science is the study of the effects of food components on the metabolism, health, performance and disease resistance of human and animals. It also includes the study of human behaviors related to food choices.</p> <p>COURSE WORK:</p> <p>Courses required for the undergraduate major in nutritional science are divided into three areas. The core courses provide a broad foundation in nutritional science. The supporting courses include chemistry, biochemistry, physics, statistics, physiology, biology, and molecular biology. The third area includes the nutritional science electives.</p> <p>FINANCING:</p> <p>Some assistantships and scholarships are offered through the Department of Nutrition, Dietetics, and Food Science. There are also college, university, private, and federal sources for financial help.</p> <p>CAREERS:</p> <p>Graduates with a B.S. in Nutritional Science find employment in major research centers; biotechnology, pharmaceutical,</p>	<p>and nutraceutical industries; community nutrition programs; nongovernmental organizations; and the fitness industry.</p> <p>Other jobs are available with food security advocacy groups (e.g., food banks, anti-poverty organizations), health advocacy organizations (preventing osteoporosis, cancer, or heart disease), trade groups for commodities (citrus fruits, vegetable growers), and people working to increase food security (farmers' market organizers, Supplemental Nutrition Assistance Programs [formerly called food stamps] as educators or administrators). Specialized skills or training such as laboratory research experience, bilingual proficiency, journalism courses and experience, or service learning with local, national, or international community organizations make students more competitive for these jobs.</p> <p>Many graduates with a BS in Nutritional Science have gone on to obtain a graduate degree (e.g. MS, MPH, PhD) at institutions such as BYU, Stanford University, the University of Illinois, the University of Utah, Utah State University, and University of Rome Tor Vergata. In addition, Nutritional Science graduates have attended medical schools at Duke, Baylor, and the Mayo Clinic (among many others), dental schools at Ohio State, University of Pittsburgh, and University of the Pacific, as well as schools of osteopathy, pharmacy, podiatry, optometry, physical therapy, and accredited physician assistant programs.</p> <p>Most nutrition counseling services are provided by Registered Dietitians. Students interested in a career as a nutrition counselor should consider majoring in Dietetics.</p> <p>PRACTICAL EXPERIENCE:</p> <p>Students may participate in research under a professor's direction. Interested students should familiarize themselves with the professor's research interests and ongoing projects. Students should approach the professor whose work most interests them to discuss how they can become involved. Students may participate as a volunteer to gain experience, as a paid research assistant, or for academic credit (NDFS 494R - Undergraduate Research). Some students who have taken advantage of this opportunity have presented the results of their research at regional, national, and international scientific meetings and have published their results in peer-reviewed scientific journals.</p>
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2017-2018

MAP DISCLAIMER

While every reasonable effort is made to ensure accuracy, there are some student populations that could have exceptions to listed requirements. Please refer to the university catalog and your college advisement center/department for complete guidelines.

DEPARTMENT INFORMATION

Nutrition, Dietetics and Food Science

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ADVISEMENT CENTER INFORMATION

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