BACHELOR OF SCIENCE WITH A MAJOR IN NUTRITION SCIENCE

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Nutrition science is the study of how nutrients and food components influence growth, metabolism, health, and disease and also includes human behavior as it relates to food choices. It is a multi-faceted and cross-disciplinary field, encompassing chemistry, biology, physiology, and public health. Nutrition scientists work to develop, extend, and apply all aspects of nutrition through research to improve clinical practice and public health.

The mission of the bachelor of science with a major in nutrition science program is to provide undergraduate students with an in-depth understanding of the scientific aspects of food and nutrition. The program also aims to lay the groundwork for integrating nutrition science across disciplines and provides students with the foundation required to apply nutrition to the health sciences.

REQUIREMENTS

The following requirements must be fulfilled:

The University General Education Requirement.

124 credits and maintenance of a minimum grade point average of 2.5 in the nutrition science core requirements.

The University General Education Requirement [1]

Code	Title	Credits
Required (26 credits)		
UW 1020	University Writing	
or HONR 1015	Honors Seminar: UW 1020: Origins and Evolution of Modern Thought	
Two writing in the disciplines (WID) courses (may also be counted in another category).		
One critical or creative analysis in the humanities course.		
One quantitative reasoning course (must be satisfied with STAT 1051, STAT 1053, or STAT 1127 for exercise science and nutrition science majors).		
One scientific reasoning course with laboratory experience (must be satisfied with BISC 1115 and BISC 1125 for exercise science and nutrition science majors)		
Two critical, creative, or quantitative analysis in the social sciences courses (must be satisfied with ANTH 1002, ANTH 1003, or ANTH 1004; and COMM 1040, or COMM 1041 for exercise science and nutrition science majors)		

*A list of approved courses can be found on the General Education Requirement page (http://bulletin.gwu.edu/university-regulations/general-education).

Code	Title	Credits
Core		
Basic math and science (38 credits)		
BISC 1115 & BISC 1125	Introductory Biology: Cells and Molecules and Introduction to Cells and Molecules Laboratory [1]	
BISC 1116 & BISC 1126	Introductory Biology: The Biology of Organisms and Introduction to Organisms Laboratory	
BISC 2337	Introductory Microbiology	
BISC 3165	Biochemistry I	
or CHEM 3165	Biochemistry I	
EXNS 1110	Applied Anatomy and Physiology I	
EXNS 1111	Applied Anatomy and Physiology II	
CHEM 1111	General Chemistry I	
CHEM 1112	General Chemistry II	
CHEM 2151	Organic Chemistry I	
CHEM 2153	Organic Chemistry Laboratory I	
CHEM 2152	Organic Chemistry II	
CHEM 2154	Organic Chemistry Laboratory II	
MATH 1220	Calculus with Precalculus I (or higher)	
Nutrition science (26 credits)		
ANTH 1002	Sociocultural Anthropology [2]	
or ANTH 1003	Archaeology	
or ANTH 1004	Language in Culture and Society	
COMM 1040	Public Communication [2]	
or COMM 1041	Interpersonal Communication	

EXNS 1109	Professional Foundations in Nutrition Science
EXNS 2114	Nutrition Sciences I
EXNS 2115	Nutrition Sciences II
EXNS 2120	Assessment of Nutritional Status
EXNS 2123	Nutrition and Chronic Disease
EXNS 2124	Lifecycle Nutrition
EXNS 3111	Nutrition Science Research Methods
EXNS 4112	Nutrition Science Senior Capstone Seminar
PSYC 1001	General Psychology
PUBH 1101	Introduction to Public Health and Health Services
STAT 1051	Introduction to Business and Economic Statistics [3]
or STAT 1053	Introduction to Statistics in Social Science
or STAT 1127	Statistics for the Biological Sciences
Electives	
16 credits in guided electives. [4]	
18 credits in general electives.	

Guided electives

Code	Title	Credits
ANTH 1005	The Biological Bases of Human Behavior	
ANTH 2502	Anthropology of Science and Technology: Twenty-First-Century Brave New Worlds	
ANTH 3413	Evolution of the Human Brain	
ANTH 3504	Illness, Healing, and Culture	
BIOC 3261	Introductory Medical Biochemistry	
BIOC 3560	Diet, Health, and Longevity	
BISC 2202	Cell Biology	
BISC 2207	Genetics	
BISC 2213	Biology of Cancer	
BISC 2214	Developmental Biology	
BISC 2220	Developmental Neurobiology	
BISC 2318	Histology	
BISC 2320	Neural Circuits and Behavior	
BISC 2322	Human Physiology	
or BISC 2322W	Human Physiology	
BISC 2323	Human Physiology Laboratory	
BISC 2580	Biotechnology	
or BISC 2580W	Biotechnology	
BISC 2581	Human Gross Anatomy	
BISC 2583	Biology of Proteins	
BISC 2584	Introduction to Bioinformatics	
BISC 3209	Molecular Biology	
BISC 3212	Immunology	
BISC 3261	Introductory Medical Biochemistry	
BISC 3262	Biochemistry Laboratory	
or CHEM 3262	Biochemistry Laboratory	
BISC 3263	Special Topics in Biochemistry	
BISC 3320	Human Neurobiology	
CHEM 3166	Biochemistry II	
or CHEM 3166W	Biochemistry II	
CHEM 3263W	Special Topics in Biochemistry	
CHEM 3564	Lipid Biotechnology	
CHEM 4122	Instrumental Analytical Chemistry	
EHS 1002	CPR and First Aid	
EHS 1040	Emergncy Medical Tech-Basic	
EHS 1041	EMT - Basic Lab	
EHS 1058	EMT Instructor Development	
EHS 2108	Emergency Medicine Clinical Scribe	
EHS 2110	Emergency Department Critical Care Assessment and Procedures	
EXNS 1114	Community Nutrition	
EXNS 1118	Sport and Nutrition	

EXNS 1199	Topics in Exercise and Nutrition Sciences
EXNS 2116	Exercise and Health Psychology
EXNS 2122	Food Systems in Public Health
EXNS 3101	Independent Study
HLWL 1102	Stress Management
HLWL 1103	Issues in Men's Health
HLWL 1106	Drug Awareness
HLWL 1108	Weight and Society
or HLWL 1108W	Weight and Society
HLWL 1110	Issues in Alternative Medicine
HLWL 1112	Issues in Women's Health
HLWL 1114	Personal Health and Wellness
HLWL 1116	Lifestyle Nutrition
HSCI 2101	Psychosocial Aspects of Health and Illness
HSCI 2102	Pathophysiology
HSCI 2103	Health Policy and the Health Care System
HSCI 2105	Current Issues in Bioethics
or PUBH 3151	Current Issues in Bioethics
HSCI 2110	Disease Prevention and Health Promotion Concepts
HSCI 2112	Writing in the Health Sciences
or HSCI 2112W	Writing in the Health Sciences
PHYS 1011	General Physics I
PHYS 1012	General Physics II
PSYC 2011	Abnormal Psychology
or PSYC 2011W	Abnormal Psychology
PSYC 2013	Developmental Psychology
PSYC 2014	Cognitive Psychology
PSYC 2015	Biological Psychology
PSYC 2570	Peer Education
PSYC 3128	Health Psychology
PUBH 1102	History of Public Health
PUBH 2110	Public Health Biology
PUBH 2112	Principles of Health Education and Health Promotion
PUBH 2113	Impact of Culture upon Health
PUBH 2116	Global Delivery of Health Systems
PUBH 2117	Service Learning in Public Health
PUBH 3130	Health Services Management and Economics
PUBH 3131	Epidemiology: Measuring Health and Disease
PUBH 3135W	Health Policy
PUBH 3137	Global Public Health Nutrition

[1] BISC 1115 and BISC 1125 are required to fulfill the University General Education Requirement (http://bulletin.gwu.edu/university-regulations/general-education) for one scientific reasoning course with laboratory experience.

[2] ANTH 1002 or ANTH 1003 or ANTH 1004; and COMM 1040 or COM 1041 are required to fulfill the University General Education Requirement (http://bulletin.gwu.edu/university-regulations/general-education) for two critical, creative, or quantitative analysis in the social sciences courses.

[3] STAT 1051 or STAT 1053 or STAT 1127 is required to fulfill the University General Education Requirement (http://bulletin.gwu.edu/university-regulations/general-education) for one quantitative reasoning course.

[4] Guided electives: the courses included in the guided electives list have been identified as highly relevant to the BS in Nutrition Science curriculum; students must take 16 credits in courses from this list. General electives (18 credits) also may be selected from the guided electives list, or any other undergraduate course at the University except LSPA courses.