EXERCISE AND HEALTH SCIENCES MAJOR

Program Curriculum

Code	Title	Credits
Degree Core Requ	irements	
HNFE 1114	Orientation to HNFE	1
HNFE 1004	Foods, Nutrition And Exercise (C) ¹	3
BIOL 1105	Principles of Biology ¹	3
BIOL 1115	Principles of Biology Laboratory ¹	1
BIOL 1106	Principles of Biology ¹	3
BIOL 1116	Principles of Biology Laboratory ¹	1
HNFE 2014	Nutrition Across the Life Span ¹	3
or HNFE 2014H	Nutrition Across the Life Span	
HNFE 2484	Evidence-Based Practice in Health Science ¹	1
BMSP 2135	Human Anatomy & Physiology ¹	3
BMSP 2136	Human Anatomy and Physiology ¹	з
HNFE 2804	Exercise and Health ¹	Э
CHEM 2514	Survey of Organic Chemistry (C-) ¹	3
or CHEM 2535	Organic Chemistry	
BCHM 2024	Concepts of Biochemistry ¹	3
or BCHM 3114	Biochemistry for Biotechnology and the Life S	ciences
	General Biochemistry	
HNFE 3034	Methods of Human Health Assessment ¹	2
HNFE 4025	Metabolic Nutrition ¹	3
HNFF 4026	Metabolic Nutrition ¹	3
Subtotal		39
Major Requireme	nts ¹	0.5
BMSP 2145	Human Anatomy and Physiology Laboratory	1
BMSP 2146	Human Anatomy and Physiology Laboratory	1
HNFE 3804	Exercise Physiology	3
Select one of the		2
HNFE 4964	Field Study (Pass/Fail only)	2
HNFE 4974	Independent Study	
HNFE 4994	Undergraduate Research	
	Undergraduate Research	
HNFE 3954	•	
	Study Abroad	-
Subtotal <i>Science Foundatio</i>	no ¹	7
	num of 4 credit hours from the following:	4
BIOL 2604	General Microbiology	
BIOL 2614	General Microbiology Laboratory	
CHEM 2536	Organic Chemistry	
CHEM 2545	Organic Chemistry Laboratory	
CHEM 2546	Organic Chemistry Laboratory	
PHYS 2205	General Physics	
	Foundations of Physics	
PHYS 2206	General Physics	
	Goundations of Physics	
PHYS 2215	General Physics Laboratory	

PHYS 2216	General Physics Laboratory			
Restricted Elective				
Complete a minimum of 15 credit hours. 9 credits must be at the13000-4000 level and at least 2 credits of HNFE Capstone.1				
HNFE 1804	Principles of Sport Science			
HNFE 2104	Moving Body, Moving Mind ³			
HNFE 2204	Medical Terminology			
FST 2014	Introduction to Food Science			
HNFE 3024	Science of Food Prep Lab			
HNFE 2314	Active Transportation for a Healthy, Sustainable Planet ³			
HNFE 2334	Introduction to Integrative Health			
HNFE 2544	Functional Foods for Health			
HNFE 2664	Behavioral Theory in Health Promotion ³			
HNFE 2774	Topics in HNFE ⁴			
HNFE 2824	Prevention and Care of Athletic Injuries			
HNFE 3634	Epidemiologic Concepts of Health and Disease			
HNFE 3824	Kinesiology			
HNFE 4174	Nutrition and Physical Performance			
HNFE 4644	Health Counseling			
HNFE 4754	Advanced Human Anatomy and Pathophysiology			
HNFE 4814	Advanced Athletic Injuries			
Capstone. Minimum of 2 credits 2				
HNFE 4004	Seminar in HNFE: Writing and Discourse in the Major			
HNFE 4114	Food and Nutritional Toxicology			
HNFE 4224	Alternative and Complementary Nutrition Therapies			
HNFE 4354	Dietary Supplements and Health			
HNFE 4514	Nutritional Genomics			
HNFE 4774	Advanced Contemporary Topics in HNFE ⁴			
HNFE 4824	Advanced Kinesiology			
HNFE 4844	Exercise and Neuromuscular Performance			
Subtotal		19		
Free Electives				
Select remaining	credit hours required to fulfill degree requirements.	11		
Subtotal		11		
Pathways to Gene	eral Education			
Pathways Concept	t 1 - Discourse			
ENGL 1105	First-Year Writing (1F) ²	3		
or COMM 1015	5 Communication Skills			
ENGL 1106	First-Year Writing (1F) ²	3		
or COMM 1016	5 Communication Skills			
COMM 2004	Public Speaking (1A) ²	3		
or ALCE 3634	Communicating Ag and Life Sciences in Speaking			
Pathways Concept	t 2 - Critical Thinking in the Humanities			
Select six credits	in Pathway 2 (https://catalog.vt.edu/course-	6		
search/?attrs_pathways=attrs_pathways_G02)				
Pathways Concept	t 3 - Reasoning in the Social Sciences			
PSYC 1004	Introductory Psychology	3		
Select three credits in Pathway 3 (https://catalog.vt.edu/course- search/?attrs_pathways=attrs_pathways_G03)				
Pathways Concept	Pathways Concept 4 - Reasoning in the Natural Sciences			

Total Credits		120	
Subtotal		44	
	t meets Concept 7 and another Concept. If course ppt 7, Pathways credit reaches 47		
United States	7 - Critical Analysis of Identity and Equity in the		
Select three credits in Pathway 6d (https://catalog.vt.edu/course- search/?attrs_pathways=attrs_pathways_G06D)			
Select three credits in Pathway 6a (https://catalog.vt.edu/course- search/?attrs_pathways=attrs_pathways_G06A)			
	6 - Critique and Practice in Design and the Arts	3	
course-search/?a or Pathway 5f (htt	f Pathway 5a (https://catalog.vt.edu/ ttrs_pathways=attrs_pathways_G05A) :ps://catalog.vt.edu/course-search/? ttrs_pathways_G05F)	3	
STAT 3615	Biological Statistics (5A)	3	
or ISC 1105	Integrated Science I		
MATH 1025	Elementary Calculus (5F) Calculus of a Single Variable	3	
	5 - Quantitative and Computational Thinking	0	
	General Chemistry for Chemistry Majors Lab		
CHEM 1046	General Chemistry for Chemistry Majors General Chemistry Laboratory ¹	1	
CHEM 1036	General Chemistry (C-) ¹	3	
or CHEM 1065	General Chemistry for Chemistry Majors Lab		
CHEM 1045	General Chemistry Laboratory ¹	1	
CHEM 1035	General Chemistry (C-) ¹ General Chemistry for Chemistry Majors	3	

¹ Included in in-major GPA.

² Credit cannot be received for both COMM 1016 and COMM 2004 if COMM 1015-COMM 1016 was taken for Concept 1f.

³ Course is part of Pathways General Education and can be counted in both locations.

⁴ Topics in HNFE (2774 and 4774) are not taught on a regular basis.

Satisfactory Progress Towards the Degree: An HNFE (**Exercise and Health Sciences**) student will be considered to have made satisfactory progress toward the degree when:

1. Overall GPA ≥ 2.50.

2. A minimum grade of "C" is required in HNFE 1004 Foods, Nutrition And Exercise and a "C-" or better is required in CHEM 1035 General Chemistry and CHEM 1036 General Chemistry and CHEM 2535 Organic Chemistry or CHEM 2514 Survey of Organic Chemistry.

3. These courses must be completed by the time the student has attempted 72 hours:

BIOL 1105 Principles of Biology-BIOL 1106 Principles of Biology or equivalent.

CHEM 1035 General Chemistry-CHEM 1036 General Chemistry or equivalent.

CHEM 2535 Organic Chemistry or CHEM 2514 Survey of Organic Chemistry.

HNFE 1004 Foods, Nutrition And Exercise.

Graduation Requirements

Note: Completion of this major does NOT qualify a student to apply to an Accreditation Council for Education in Nutrition and Dietetics (ACEND) accredited Dietetic Internship.

Graduation Requirement: Overall GPA ≥ 2.50.

A minimum grade of "C" is required in HNFE 1004 Foods, Nutrition And Exercise and a "C-" or better is required in CHEM 1035 General Chemistry and CHEM 1036 General Chemistry and CHEM 2535 Organic Chemistry or CHEM 2514 Survey of Organic Chemistry.

Foreign Language Requirement

A sequence of two foreign language courses is required for graduation unless two years of high school credits of the same foreign language or six transfer credits of one foreign language have been earned. These credits do not count towards graduation.