

College of Agriculture and Life Sciences
Bachelor of Science: Human Nutrition, Foods and Exercise Major
SCIENCE OF FOOD, NUTRITION AND EXERCISE OPTION (SFNE)
For students graduating in the calendar year 2022 and date of entry under UG Catalog 2020-2021

Pathways to General Education	47 Credits
Concept 1: Discourse 9 credits	
1f: Foundational Discourse: ENGL 1105-1106 First Year Writing	3__ 3__
1a: Advanced / Applied Discourse: ♦ COMM 2004 ¹ Public Speaking	3__
Concept 2: Critical Thinking in the Humanities 6 credits	
(select from timetable)	3__
(select from timetable)	3__
Concept 3: Reasoning in the Social Sciences 6 credits	
PSYC 1004 Introductory Psychology	3__
(select from timetable)	3__
Concept 4: Reasoning in the Natural Sciences 8 credits	
♦CHEM 1035 ^{2,3} , 1045 ² General Chemistry Lecture and Lab	3__ 1__
♦CHEM 1036 ^{2,3} , 1046 ² General Chemistry Lecture and Lab	3__ 1__
Concept 5: Quantitative and Computational Thinking 9 credits	
5f: Foundational: MATH 1025 ⁴ Elementary Calculus	3__
5f: Foundational: MATH 1026 ⁴ Elementary Calculus	3__
5a: Applied: ♦STAT 3615 Biological Statistics (Pre: MATH 1025 or equivalent ⁴)	3__
Concept 6: Critique and Practice in Arts and Design 6 credits	
6a: Critique and Practice in the Arts (select from timetable)	3__
6d: Critique and Practice in Design (select from timetable)	3__
Concept 7: Critical Analysis of Identity and Equity in the United States	
(student choice; some courses in this Concept will also fulfil another Concept area)	3__

♦ Department of Human Nutrition, Foods and Exercise Common Degree Core		41 Credits
HNFE 1114*	Orientation to HNFE	1__
HNFE 1004 ³	Foods, Nutrition and Exercise	3__
BIOL 1105,1115 ⁵	Principles of Biology, Principles of Biology Lab	3__ 1__
BIOL 1106,1116 ⁵	Principles of Biology, Principles of Biology Lab	3__ 1__
HNFE 2014	Nutrition Across the Life Span (Pre: HNFE 1004, CHEM 1035, Co: CHEM 1036)	3__
HNFE 2804	Exercise and Health (Pre: HNFE 1004, BMSP 2135)	3__
BMSP 2135-2136	Human Anatomy & Physiology (Pre: BIOL 1105, 1106 or equivalent ⁵)	3__ 3__
CHEM 2514 ^{3,6} or 2535 ^{3,6}	Survey of Organic Chemistry or Organic Chemistry (Pre: CHEM 1036, CHEM 1046)	3__
BCHM 2024 ⁷	Concepts of Biochemistry (Pre: CHEM 2514 or 2535)	3__
HNFE 3034	Methods of Human Health Assessment (Pre: HNFE 2014, BMSP 2136)	2__
HNFE 4025-4026	Metabolic Nutrition (Pre: HNFE 2014, BCHM 2024, BMSP 2136)	3__ 3__
HNFE 4004	Seminar in HNFE: Writing & Discourse (Pre: COMM 2004 or ALCE 3634; Co: HNFE 4025)	3__

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

² Acceptable substitutions for General Chemistry: CHEM 1055/1065 and 1056/1066 General Chemistry for Majors.

³ A minimum grade of "C" is required in both CHEM 1035 and 1036; CHEM 2514 or 2535; and HNFE 1004.

⁴ Acceptable substitutions: MATH 1225 or 1525 or ISC 1105 for 1025 and 1226 or 1526 or 1524 or ISC 1106 for 1026.

⁵ Acceptable substitutions: BIOL 1005/1015 or BIOL 1205H or BIOL 1205 for BIOL 1105/1115; BIOL 1006/1016 or 1206H or 1206 for BIOL 1106/1116.

⁶ Students should choose organic chemistry based on what is required for their career and professional pathway.

⁷ Acceptable substitution: BCHM 3114 or 4115 (preferred for Medical and Dental schools). BCHM 4115 limited to Biochemistry double majors and is a 4-credit class.

♦ **In-major GPA.** These courses are included in the in-major GPA calculation with the exception of HNFE 1114. (Continued on page 2).

*Courses marked as First Year Experience will substitute for HNFE 1114.

University GPA Graduation Requirement: Minimum Overall GPA: 2.0; In-Major GPA: 2.0.

HNFE Satisfactory Progress GPA Requirements: Minimum In-major GPA requirement: 2.5; HNFE SFNE Overall GPA 2.5 (see page 3 for requirements).

SCIENCE OF FOOD, NUTRITION AND EXERCISE

◆ GROUP A: SFNE Curriculum - Complete ALL of the following courses.		7 Credits
BMSP 2145-2146	Human Anatomy and Physiology Lab (Co: 2135 for 2145; 2136 for 2146)	1 ___ 1 ___
HNFE 3804	Exercise Physiology (Pre: BMSP 2136)	3 ___
HNFE 4964 or 4974 or 4994 or 3954	Independent Learning Experience ⁸ : Field Study or Independent Study or Undergraduate Research or Study Abroad (2 total credits needed, may be different experiences)	2 ___

◆ GROUP B: Science Foundations - Minimum of 4 credits. Additional credits (3cr max) count in Group D		4 Credits
BIOL 2604	General Microbiology (Pre: CHEM 1036 , 1 yr BIOL)	3 ___
BIOL 2614	General Microbiology Lab (Pre/Co: BIOL 2604.)	2 ___
CHEM 2536	Organic Chemistry (Pre: CHEM 2535)	3 ___
CHEM 2545	Organic Chemistry Lab (Pre: CHEM 1046; Co: 2535)	1 ___
CHEM 2546	Organic Chemistry Lab (Pre: CHEM 2545; Co: 2536)	1 ___
PHYS 2205	General Physics (Pre: MATH 1016 or 1025)	3 ___
PHYS 2206	General Physics (Pre: PHYS 2205 or 2305)	3 ___
PHYS 2215	General Physics Lab (Co: PHYS 2205)	1 ___
PHYS 2216	General Physics Lab (Co: PHYS 2206)	1 ___

◆ GROUP C: HNFE Electives - Minimum 12 credits, at least 6 must be at the 3000-4000 level. All courses in this section must be HNFE courses; non-HNFE courses cannot be substituted. ⁹ Courses listed in (parentheses) are cross listed courses.		12 Credits
HNFE 1804	Principles of Sport Science (<i>Note: only available for Summer Academy students</i>)	3 ___
HNFE 2104 (DANC 2104)	Moving Body, Moving Mind	3 ___
HNFE 2204	Medical Terminology (Pre: 1 yr BIOL)	3 ___
FST 2014 & HNFE 3024	Introduction to Food Science, Science of Food Preparation Lab (Pre: FST 2014) (<i>Note: FST 2014 counts in Group D if HNFE 3024 is not subsequently taken</i>)	2 ___, 2 ___
HNFE 2314 (SPIA 2314)	Active Transportation for a Healthy, Sustainable Planet	3 ___
HNFE 2334	Intro to Integrative Health	3 ___
HNFE 2544 (FST 2544)	Functional Foods for Health	3 ___
HNFE 2664	Behavioral Theory in Health Promotion	3 ___
HNFE 2774*	Topics in HNFE (variable credit)	1-3 ___
HNFE 2824	Prevention and Care of Athletic Injuries	2 ___
HNFE 3634 (PHS 3634)	Epidemiologic Concepts of Health and Disease (junior standing)	3 ___
HNFE 3824	Kinesiology (Pre: BMSP 2136, Co: PHYS 2205)	3 ___
HNFE 4114	Food and Nutritional Toxicology (Pre: BMSP 2136, BCHM 2024)	3 ___
HNFE 4174	Nutrition and Physical Performance (Pre: HNFE 2804; Co: HNFE 4025)	3 ___
HNFE 4224	Alternative and Complementary Nutrition Therapy (Pre: 1 yr BIOL; CHEM 1036)	2 ___
HNFE 4514	Nutritional Genomics (Junior standing required)	3 ___
HNFE 4644	Health Counseling (Junior standing required)	3 ___
HNFE 4754	Advanced Human Anatomy and Pathophysiology (Pre: BMSP 2136, 2146)	3 ___
HNFE 4774*	Advanced Topics in HNFE (variable credit) (Pre: HNFE 2014) (Junior Standing)	1-3 ___
HNFE 4824	Advanced Kinesiology (Pre: HNFE 3824)	3 ___
HNFE 4844	Exercise and Neuromuscular Performance (Pre: HNFE 3804)	3 ___

◆ GROUP D: Technical Electives¹⁰ - Minimum 6 credits. Group C courses at 3000-4000 level can also be used in group D. See HNFE Advising site for additional options.		6 Credits
AAEC 4814	Food and Health Economics (Senior standing required)	3 ___
BCHM 2114	Biochemical Calculations (Pre: CHEM 2535 or 2565)	2 ___
BCHM 4116 ⁷	General Biochemistry (Pre: C- or better in CHEM 2535 and 2536; BCHM 4115)	3 ___
BIOL 2004	Genetics (Pre: 1 yr BIOL; CHEM 1036)	3 ___
BIOL 2134	Cell Function and Differentiation (Pre: BIOL 2004)	3 ___
BIOL 3104	Cell and Molecular Biology Lab (Pre: BIOL 2134)	1 ___
BIOL 3134	Human Genetics (Pre: BIOL 2004 or BIOL 2134)	3 ___
BIOL 3774	Molecular Biology (Pre: BIOL 2134 or ALS 3104)	3 ___
BIOL 4674	Pathogenic Bacteriology (Pre: BIOL 2004, BIOL 2134, BIOL 2604, BIOL 2614)	3 ___

BIOL 4704	Immunology (Pre: BIOL 2134)	3
BIOL 4714	Immunology Lab (Pre: 2134; Co: 4704)	1
BIOL 4724	Pathogenic Bacteriology Lab (Pre: BIOL 2004, BIOL 2134, BIOL2604. Co: BIOL 4674)	2
BIOL 4734	Inflammation Biology (Pre: BIOL 2134)	3
BIOL 4874	Cancer Biology (Pre: BIOL 2004, BIOL 2134)	3
CHEM 4554	Drug Chemistry (Pre: CHEM 2536)	3
CHEM 4615	Physical Chemistry for the Life Sciences (Pre: 1 yr CHEM, PHYS, MATH/calculus)	3
HORT 2834	Sustainable Agriculture Practicum	3
PHIL 3324	Biomedical Ethics	3
PSYC 3054	Health Psychology (Pre: PSYC 1004 or 2004)	3
SPAN 3514	Spanish for Medical Professionals (Pre: SPAN 3304)	3
STAT 3616	Biological Statistics (Pre: STAT 3615)	3

TOTAL CREDITS REQUIRED FOR GRADUATION		
	SUBTOTAL FOR GENERAL EDUCATION:	47 credits
	SUBTOTAL FOR HNFE DEPARTMENT CURRICULUM:	41 credits
	SUBTOTAL FOR SFNE OPTION:	29 credits
	FREE ELECTIVES¹¹:	3 credits
	TOTAL CREDITS REQUIRED FOR GRADUATION:	120 credits

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 6 transfer credits of one foreign language have been earned. These credits do not count towards graduation.

⁸ Meet with your faculty mentor and academic advisor early to discuss which option would be best for your career goals and allow time to line-up an opportunity. Two credits are required for graduation but students may do additional credits as free electives. Only 2 credits will count toward in-major GPA.

⁹ New HNFE courses or HNFE Special Study (HNFE 2984 or HNFE 4984) courses are allowed in this section and can be substituted for courses on this list. No courses outside of HNFE will be substituted. Students must have at least 12 hours of HNFE electives, with at least 6 at the 3000-4000 level.

¹⁰ Seats in Group D Technical Electives cannot be guaranteed.

¹¹Free electives may be any course available to the student. Prerequisites for courses still apply. Students should be careful not to exceed the university maximum of pass/fail credits (See Academic Policies in the Undergraduate Catalog). A total of 120 credits must be completed for graduation, regardless of a course counting in two checked areas. This may require more Free Electives than listed.

*HNFE 2774: Topics in HNFE and HNFE 4774: Advanced Topics in HNFE are not taught on a regular basis. Students would be notified of opportunities through the department communications and the timetable of classes.

Note: Completion of this option does not qualify a student to apply to an Accreditation Council for Education in Nutrition and Dietetics (ACEND) Accredited Dietetic Internship. Students interested in becoming a Registered Dietitian must complete the Dietetics option of the HNFE program.

HNFE is a restricted major. Students who wish to change into, transfer into, and/or continue to study within HNFE must have and maintain the following:

SATISFACTORY PROGRESS TOWARDS THE DEGREE: An HNFE (SFNE Option) student will be considered to have made satisfactory progress toward the degree when he/she has successfully completed:

1. In-major GPA \geq 2.5.
2. Overall GPA \geq 2.5.
3. Grade of C* or better in HNFE 1004, CHEM 1035*, CHEM 1036 and CHEM 2535 or 2514. (*C- or better in CHEM 1055 Chem for Majors)
4. These courses must be completed by the time the student has attempted 72 hours:
 - BIOL 1105-1106 or equivalent.
 - CHEM 1035-1036 or equivalent.
 - CHEM 2535 or 2514.
 - HNFE 1004.

Students not meeting Satisfactory Progress will have one probationary semester in which to resolve their standing. Students who do not return to good standing at the end of the probationary semester must leave the major. Internal or external transfers will be required to create a plan of study that demonstrates how the student will attain Satisfactory Progress in regards to coursework. The GPA threshold will stand for all students regardless of transfer status.