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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 2020

Curriculum for Liberal Education (Areas 1-7)	**36 Credits**
Area 1: Writing and Discourse. 6 credits (Choose one of the sequences below)	
ENGL 1105-1106 First Year Writing **or** COMM 1015-1016[1] Communication Skills	3___ 3___
Area 2: Ideas, Cultural Traditions and Values. 6 credits	
	3___
	3___
Area 3: Society and Human Behavior. 6 credits	
PSYC 1004 Introductory Psychology	3___
	3___
Area 4: Scientific Reasoning and Discovery. 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___
Area 5: Quantitative and Analytic Reasoning. 6 credits	
MATH 1025[4] Elementary Calculus	3___
MATH 1026[4] Elementary Calculus	3___
Area 6: Creativity and Aesthetic Experience. 1 credit	
	1___
Area 7: Critical Issues in a Global Context. 3 credits; may also fulfill another area	
	3___

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.

♦ **Department of Human Nutrition, Foods and Exercise Curriculum**		**47 Credits**
HNFE 1114 **or** ALS 1234	Orientation to HNFE **or** CALS First Year Seminar	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)	3___
STAT 2004 or 3615	Introductory Statistics or Biological Statistics (Pre: MATH 1014)	3___
BMSP 2135-2136	Human Anatomy & Physiology (Pre:1 yr BIOL)	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___
COMM 2004[1] **or** ALCE 3634	Public Speaking (Soph standing req) **or** Communicating Agriculture & Life Sciences in Speaking	3___
HNFE 3034	Methods of Human Health Assessment (Pre: HNFE 2014, BMSP 2136, BCHM 2024)	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] Students who complete the COMM 1015-1016 sequence should take ALCE 3634. Credit cannot be received for both COMM 1016 and COMM 2004.

[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 for 1025; and 1226 or 1526 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 professional programs. Medicine, dentistry, and pharmacy commonly require 8 credits of organic chemistry; some (not all) programs in nursing and physician assistant may also require more than 3 credits of organic chemistry.

[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 (continued on page 2).

University GPA Graduation Requirement: Minimum Overall GPA: 2.0; In-Major GPA: 2.5.

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

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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	1___ 1___
HNFE 3804	Exercise Physiology (Pre: BMSP 2136)	3___
HNFE 4964[7] **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 2015)	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]		12 Credits
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) *(FST 2014 will fit into Group D if HNFE 3024 is not subsequently taken)*	2___, 2___
HNFE 2334	Intro to Integrative Health	3___
HNFE 2544	Functional Foods for Health	3___
HNFE 2664[10]	Behavioral Nutrition and Physical Activity	3___
HNFE 2774*	Topics in HNFE (variable credit)	1-3 ___
HNFE 2824	Prevention and Care of Athletic Injuries	2___
HNFE 3634	Epidemiologic Concepts of Health and Disease	3___
HNFE 3824	Kinesiology (Pre: BMSP 2136, PHYS 2205)	3___
HNFE 4174	Nutrition and Physical Performance (Pre: HNFE 1004, 3804)	3___
HNFE 4224	Alternative and Complementary Nutrition Therapy (Pre: 1 yr BIOL; CHEM 1036, CHEM 3025)	2__
HNFE 4644	Health Counseling (Junior standing required)	3___
HNFE 4774*	Advanced Topics in HNFE (variable credit)	1-3 ___
HNFE 4844	Exercise and Neuromuscular Performance (Pre: HNFE 3804)	3___

♦ GROUP D: Technical Electives- Minimum 6 credits. (Seats in these courses cannot be guaranteed)		6 Credits
AAEC 4814	Food and Health Economics (Senior standing required)	3___
BCHM 2114	Biochemical Calculations (Pre: CHEM 2535 or 2565)	2___
BCHM 4116[6,7]	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 2104	Cell and Molecular Biology (Pre: 1 yr BIOL; CHEM 1036)	3___
BIOL 3104	Cell and Molecular Biology Lab (Pre: BIOL 2104)	1___
BIOL 3124	Cell Physiology (Pre: BIOL 2104; CHEM 2536)	3___
BIOL 3134	Human Genetics (Pre: BIOL 2004 or BIOL 2104)	3___
BIOL 3774	Molecular Biology (Pre: BIOL 2104 or ALS 3104)	3___
BIOL 4674	Pathogenic Bacteriology (Pre: BIOL 2004, BIOL 2104, BIOL 2604, BIOL 2614)	3___
BIOL 4704	Immunology (Pre: CHEM 2536)	3___
BIOL 4714	Immunology Lab (Pre: BIOL 2104, CHEM 2536. Co: CHEM 4704)	1___
BIOL 4724	Pathogenic Bacteriology Lab (Pre: BIOL 2004, BIOL 2104, BIOL 2604, BIOL 2614 Co: BIOL 4674)	1___
BIOL 4734	Inflammation Biology (Pre: BIOL 2104)	3___
BIOL 4874	Cancer Biology (Pre: BIOL 2004, BIOL 2104)	3___
CHEM 2114	Analytical Chemistry (Pre: CHEM 1036, Co: 2124)	3___

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CHEM 2124	Analytical Chemistry Lab (Pre: CHEM 1046, Co: 2114)	1___
CHEM 3615	Physical Chemistry (Pre: CHEM 1036, PHYS 2306, MATH 2224)	3___
CHEM 3616	Physical Chemistry (Pre: CHEM 3615, MATH 2214, PHYS 2306)	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___
FST 4504	Food Chemistry (Pre: CHEM 2536, BCHM 2024)	3___
FST 4634	Epidemiology Foodborne Disease (Co: FST 4604 or BIOL 4674)	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 CURRICULUM FOR LIBERAL EDUCATION:	**36 credits**
	SUBTOTAL FOR HNFE DEPARTMENT CURRICULUM:	**47 credits**
	SUBTOTAL FOR SFNE OPTION:	**29 credits**
	FREE ELECTIVES[11]:	**8 credits**
	TOTAL CREDITS REQUIRED FOR GRADUATION[11]:	**120 credits**

[7] BIOL 3504 Health Professions Preceptorship is an acceptable substitution for HNFE 4964.

[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 towards 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] HNFE 2664 cannot be used as an HNFE elective if used for CLE Area 3.

[11] Free 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.

♦ **In-major GPA.** These courses are included in the in-major GPA calculation (continued on page 2).

University GPA Graduation Requirement: Minimum Overall GPA: 2.0; In-Major GPA: 2.5.

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

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.

Prerequisites for courses are listed in the Undergraduate Course Catalog and associated with the CRN hyperlink on the on-line Timetable. It is the responsibility of the student to make sure the prerequisites for each course have been met. HNFE checks for prerequisites both during course request and at the beginning of the semester. Students who enroll in a course for which they clearly have not satisfied the prerequisites or equivalent may be dropped from the course. Deliberately false statements testifying to the satisfaction of prerequisites constitute a violation of the honor code.

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 ≥ 2.5.
2. Overall GPA ≥ 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.