

HUMAN NUTRITION: Required Courses (prerequisites in parentheses)¹

Year 1 (Normally taken in University I)		Credits
_____	HNSC 1200 Food: Facts and Fallacies	3
_____	HNSC 1210 Nutrition for Health & Changing Lifestyles	3
_____	CHEM 1300 University I: Structure & Modeling in Chemistry (Math 40S, Chemistry 40S)	3
_____	CHEM 1320 University I: Introduction to Organic Chemistry ⁷ ('C' in CHEM 1300)	3
_____	ZOOL 1320 Anatomy of the Human Body ² OR	3-6
_____	BIOL 1020 Biology 1 and	
_____	BIOL 1030 Biology 2	
_____	ZOOL 1330 Physiology of the Human Body ¹⁰ ('C' in ZOOL 1320 OR BIOL 1020 and BIOL 1030)	3
_____	PSYC 1200 Introduction to Psychology OR	6
or	SOC 1200 Introduction to Sociology	6
_____	_____ Elective ³	3
_____	_____ Elective ³	3
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Year 2		
_____	HNSC 2130 Nutrition Through the Life Cycle (HNSC 1210)	3
_____	HNSC 2140 Basic Principles of Human Nutrition ('C' in CHEM 2770, HNSC 1210, HNSC 1200)	3
_____	HNSC 2150 Composition, Functional, & Nutritional Properties of Food (HNSC 1200, HNSC 1210, CHEM 1320)	3
_____	HNSC 2160 Food Preparation & Preservation (HNSC 1200, CHEM 1320)	3
_____	CHEM 2770 Elements of Biochemistry I ⁸ ('C' in CHEM 1320, BIOL 1020 & BIOL 1030 OR ZOOL 1320 and ZOOL 1330)	3
_____	CHEM 2780 Elements of Biochemistry II ⁹ ('C' in CHEM 2770)	3
_____	HMEC 2030W Human Ecology: Perspectives & Communication <i>or the former 28.103W</i>	3
_____	STAT 1000 Basic Statistical Analysis I	3
_____	STAT 2000 Basic Statistical Analysis II ('C' in STAT 1000)	3
_____	_____ Elective ^{3,4} (MGMT 2030, MGMT 2070, or MGMT 2080 <i>if planning to take HNSC 3342 and HNSC 4140</i>) ⁵	3
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Year 3		
_____	HNSC 3310 Macronutrients & Human Health (HNSC 2140, CHEM 2780, ZOOL 1330 or ZOOL 2540)	3
_____	HNSC 3300 Vitamins and Minerals in Human Health (HNSC 2140, CHEM 2780, ZOOL 1330, or ZOOL 2540)	3
_____	HNSC 3320 Nutrition Education & Dietary Change (PSYC 1200, HNSC 2130, HNSC 2140, HNSC 2160)	3
_____	HNSC 3330 Ingredient Technology for Designed Foods (CHEM 2780 and HNSC 2150, or CHEM 2220 and FOOD 2500)	3
_____	HMEC 2050 Introduction to Research in Human Ecology (HMEC 2030, STAT 1000)	3
_____	HMEC 3100 Communication for Professional Practice (HMEC 2030, 54 credit hours)	3
_____	FOOD 4150 Food Microbiology	3
_____	HNSC _____ HNSC Elective ^{3,4}	3
_____	HNSC _____ HNSC Elective ^{3,4}	3
_____	_____ Elective ³	3
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Year 4		
_____	HNSC 4290 Food, Nutrition, & Health Policies (HMEC 2050, HNSC 2130, HNSC 2150, STAT 2000)	3
_____	HNSC 4320 Nutritional Management of Disease States (pre or co-requisites HNSC 3300, HNSC 3310 and HNSC 3320)	3
_____	HNSC 4160 Seminar in Foods & Nutrition (4 th year Department Majors) (84 credits + HMEC 3100)	3
_____	HNSC _____ HNSC Elective ^{3,4}	3
_____	HNSC _____ HNSC Elective ^{3,4}	3
_____	HNSC _____ HNSC Elective ^{3,4}	3
_____	_____ Elective ³	3
_____	_____ Elective ³	3
_____	_____ Elective ³	3
_____	_____ Elective ³	3

***You must have the prerequisites for any course you take. We will not override prerequisites in order to allow you to progress more quickly.**

NOTES:

¹Check and consult the University Calendar for former course numbers, other equivalents, and for prerequisites.

²Students must take ZOOL 1320 Anatomy of the Human Body or BIOL 1020, BIOL 1030 Biology 1 and Biology 2 **AND** require ZOOL 1330 Physiology of the Human Body (3 credits) in order to take HNSC 3310 Macronutrients & Human Health and HNSC 3300 Vitamins and Minerals in Human Health. Free electives must be used to meet this requirement for ZOOL 1330, if BIOL 1020 and BIOL 1030 is taken.

³Electives are the student's choice. However, to graduate, the student **MUST** include: **15 credits of department electives** (choose from list of HNS courses below) **and 24 credits of free electives** (choose from any course on campus including courses in the Department of Human Nutritional Sciences or the Faculty of Human Ecology). Students graduating after May 2005 will replace the requirement for 028.408 with 3 credit hours of electives.

⁴STUDENTS WHO INTEND TO PURSUE A DIETETIC INTERSHIP **MUST** TAKE: HNSC 3342 (requires GMGT 2030, GMGT 2070, or GMGT 2080 to be taken in year 2; the business course uses 3 credit hours of free electives) and must also take HNSC 4140, *and* 3 credit hours that may be selected from HNSC 4300, HNSC 4310, HNSC 4362, and HNSC 4340.

⁵A Minor in Management is offered by the Asper School of Business for Human Ecology students. Also, students may choose to complete a voluntary minor. Refer to the University Calendar for details. The courses would fulfill the electives portion of the degree.

⁶Students in Human Nutritional Sciences who are graduating after May 2005 will replace the requirement for 28.408 with 3 credit hours of free electives.

⁷Students can take either CHEM 1320 (University 1: Introduction to Organic Chemistry) or CHEM 1310 (University 1: Introduction to Physical Chemistry)

⁸Students can take either CHEM/MBIO 2770 (Elements of Biochemistry 2) or CHEM/MBIO 2360 (Biochemistry 1: Bio-molecules and an Introduction to Metabolic Energy).

⁹Students can take either CHEM/MBIO 2780 (Elements of Biochemistry 2) or CHEM/MBIO 2370 (Biochemistry 2: Catabolism, Synthesis, and Information Pathways).

¹⁰Students can take either ZOOL 1330 (Physiology of the Human Body) or ZOOL 2530 (Human Physiology1) and ZOOL 2540 (Human Physiology 2)

Human Nutrition Department Electives (HNSC) (15 credit hours required) (prerequisites in parentheses)

HNSC 3260	Food Quality Evaluation (requires HNSC 2160 or FOOD 3010 <i>and</i> STAT 2000)	3
HNSC 3350	Culture and Food Patterns (requires PSYC 1200 <i>OR</i> SOC 1200 <i>and</i> HNSC 1200 <i>and</i> HNSC 1210)	3
HNSC 3342	Management for Food and Nutrition Professionals (requires HNSC 1200 <i>and</i> one of GMGT 2030, GMGT 2070, or GMGT 2080)	3
HNSC 4120	Senior Thesis (Instructor consent)	3
HNSC 4140	Food Production & Management (requires HNSC 2160 <i>and</i> HNSC 3342)	3
HNSC 4270	Sensory Evaluation of Food (HNSC 2160, or FOOD 3010 or ENTM 3240 and STAT 2000 or equivalent)	3
HNSC 4280	Food Product Development (requires MKTG 2210, STAT 2000 <i>and</i> HNSC 3330 or consent of instructor)	3
HNSC 4300	Community Nutrition Interventions (requires HNSC 3320)	3
HNSC 4310	Nutrition & the Elderly (HNSC 3310 and HNSC 3320; Pre or Corequisite: HNSC 3300) [offered in alternate years, opposite HNSC 4340]	3
HNSC 4362	Nutrition Option Practicum (Completion of 84 cr. hours in HNS program with two of the following: HNSC 3300, HNSC 3310, HNSC 3320 & HNSC 3330; <i>and</i> consent of instructor) Application due April 30. Limited Enrolment	6
HNSC 4340	Maternal and Child Nutrition (HNSC 3310 and HNSC 3320; Pre or Corequisite: HNSC 3300) [offered in alternate years, opposite HNSC 4310]	3
HNSC 4350	Nutrition in Exercise & Sport (HNSC 1210 and ZOOL 1330 (HNS Students), or consent of instructor)	3
HNSC 4540	Functional Foods & Nutraceuticals (CHEM 2770 or CHEM 2360)	3

In the event of discrepancies with this document and the *General Calendar*, the General Calendar will prevail.