

HUMAN NUTRITIONAL SCIENCES: (Pre-Med Professional Preparation)¹

Year 1		Credits
___ HNSC 1200	Food: Facts & Fallacies	3
___ HNSC 1210	Nutrition for Health & Changing Lifestyles	3
___ CHEM 1300	University I: Structure & Modeling in Chemistry (Math 40S, Chemistry 40S)	3
___ CHEM 1310	University I: Introduction to Physical Chemistry (C in CHEM 1300) ²	3
___ BIOL 1020	Biology 1 and	6
___ BIOL 1030	Biology 2	
___ PSYC 1200	Introduction to Psychology	6
___ ENGL 1200	Elective ^{4,5} : Representative Literary Works/Twentieth-Century Literature <u>or</u> Humanities/Social Sciences	6

Year 2		
___ HNSC 2130	Nutrition Through the Lifecycle (HNSC 1210)	3
___ HNSC 2140	Basic Principles of Human Nutrition (C in CHEM 2360, HNSC 1210, HNSC 1200)	3
___ HNSC 2150	Composition, Functional & Nutritional Properties of Food (HNSC 1200, HNSC 1210 CHEM 1310)	3
___ HNSC 2160	Food Preparation & Preservation (HNSC 1200, CHEM 1310)	3
___ CHEM 2360/ MBIO 2360	Biochemistry 1: Bio-molecules... (C in CHEM 1310 and BIOL 1020 and BIOL 1030) ²	3
___ CHEM 2370/ MBIO 2370	Biochemistry 2: Catabolism, Synthesis... (C in CHEM 2360 and C in CHEM 2210) ²	3
___ ZOOL 1330	Elective ⁴ : Physiology of the Human Body (BIOL 1020 and BIOL 1030)	3
___ HMEC 2030W	Human Ecology: Perspectives & Communication	3
___ STAT 1000	Basic Statistical Analysis I	3
___ CHEM 2210	Elective ⁴ : Introduction to Organic Chemistry 1: Structure and Function (C in CHEM 1310)	3

Year 3		
___ HNSC 3310	Macronutrients & Human Health (HNSC 2140, CHEM 2370, ZOOL 1330, or ZOOL 2540)	3
___ HNSC 3300	Vitamins & Minerals in Human Health (HNSC 2140, CHEM 2370, ZOOL 1330 or equivalent)	3
___ HNSC 3320	Nutrition Education & Dietary Change (PSYC 1200, HNSC 2130, HNSC 2140, HNSC 2160)	3
___ HNSC 3330	Ingredient Technology for Designed Foods (CHEM 2370 and HNSC 2150, or CHEM 2220 and FOOD 2500)	3
___ HMEC 2050	Introduction to Research in Human Ecology (HMEC 2030W, STAT 1000)	3
___ HMEC 3100	Communication for Professional Practice (HMEC 2030W & 54 credit hours)	3
___ STAT 2000	Basic Statistical Analysis II (C in STAT 1000)	3
___ PHYS 1020	Elective ⁴ : General Physics 1 (Physics 40S and Math 40S with 70% average)	3
___ PHYS 1030	Elective ⁴ : General Physics 2 (C in PHYS 1020)	3
___ _____	Free Elective _____	3

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 & HNSC 3320)	3
___ HNSC 4160	Seminar in Foods & Nutrition (4 th year Department Majors) (84 credits & HMEC 3100)	3
___ FOOD 4150	Food Microbiology	3
___ HNSC _____	HNSC Elective ³ _____	3
___ HNSC _____	HNSC Elective ³ _____	3
___ HNSC _____	HNSC Elective ³ _____	3
___ HNSC _____	HNSC Elective ³ _____	3
___ HNSC _____	HNSC Elective ³ _____	3
___ _____	Free Elective _____	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:

1. Check and consult the *Undergraduate Calendar* for former course numbers, other equivalents and for prerequisites.
2. Changes have been made to the list of required courses as given in the *Undergraduate Calendar* to accommodate the requirements of the University of Manitoba's pre-med professional preparation: CHEM 1310 replaces CHEM 1320; CHEM 2360 and CHEM 2370 replace CHEM 2770 and CHEM 2780.
3. HNS (department) electives are the student's choice. To graduate, the student **MUST** include 15 credits of department electives (listed below).
4. Courses designated as electives will fulfill the 24 credit hours of electives listed as degree requirements in the *Undergraduate Calendar*. The courses listed as electives meet the requirements of the University of Manitoba's pre-med professional preparation.
5. **June 1, 2006 Announcement - Change in Entrance Requirement for the Faculty of Medicine**

The Faculty of Medicine will no longer require applicants to have specific English or French literature courses as a pre-requisite to Medicine. We have, as a result, increased the Humanities/Social Science Requirement.

As a result of change in the entrance requirement applicants must now have completed at least 18 credit hours in the humanities/social sciences. Applicants who complete a 4 Year Major or Honours program may waive up to 12 credit hours of the humanities/social sciences prerequisite. Applicants with a BSc (General) or BA (General) must complete the full requirement. The Admissions Committee is currently considering reducing the number of credit hours that may be waived. Students planning to apply in future years should consider taking the full requirement. The Faculty of Arts describes the recognized subject fields for humanity and social science requirements in section 5.1.1 of the Undergraduate Calendar.

Department Electives:

		Credits
Department Electives (15 credit hours required) (pre-requisites 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 OR SOC 1200 <i>and</i> HNSC 1200 <i>and</i> HNSC 1210)	3
HNSC 3342	Management for Food and Nutrition Professionals (requires HNSC 1200 and one of GMGT 2030, 2070, or 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 FOOD 3240 and STAT 2000 or equivalent)	3
HNSC 4280	Food Product Development (requires MKT 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 and the Elderly (HNSC 3310 and HNSC 3320; Pre or Co requisite: 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 & Child Nutrition (HNSC 3310 and HNSC 3320; Pre or Co requisite: HNSC 3300) [offered in alternate years, opposite HNSC 4310]	3
HNSC 4350	Nutrition in Exercise & Sport (HNSC 1210 and PHED 3430 or ZOOL 1330 or consent of	

	instructor)	3
HNSC 4540	Functional Foods & Nutraceuticals (requires CHEM 2360)	3
HMEC 4060	Developmental Health (PSYC 2250 or HMEC 2050)	3

In the event of discrepancies between this document and the *Undergraduate Calendar*, the information given in the *Undergraduate Calendar* will prevail.