

# HUMAN NUTRITIONAL SCIENCES, B.SC. - AGREEMENT WITH RED RIVER COLLEGE CULINARY ARTS

## Overview/Entrance Requirements

Students majoring in Human Nutritional Sciences (HNS) will be admitted to the 4-year degree program, the second-degree program, or the Human Nutritional Sciences/Culinary Arts program. Students in the 4-year degree program must choose from the Nutrition Option, the Foods Option, or the Food Industry Option.

Estimated time to completion based on prerequisites is 3 years.

## Degree Requirements

Course	Title	Hours
<b>Required Courses</b>		
AGRI 1600	Introduction to Agrifood Systems	3
AGRI 2400	Experimental Methods in Agricultural and Food Sciences <sup>1</sup>	3
One of the following: <sup>2</sup>		3
BIOL 1410	Anatomy of the Human Body (or)	
BIOL 1020 & BIOL 1030	Biology 1: Principles and Themes and Biology 2: Biological Diversity, Function and Interactions	
BIOL 1412	Physiology of the Human Body <sup>2</sup>	3
CHEM 1100	Introductory Chemistry 1: Atomic and Molecular Structure and Energetics	3
CHEM 1130 or CHEM 1110	Introduction to Organic Chemistry <sup>3</sup> / Introductory Chemistry 2: Interaction, Reactivity, and Chemical Properties	3
CHEM/MBIO 2730	Elements of Biochemistry 1 <sup>4</sup>	3
CHEM 2740	Introduction to the Biochemistry Laboratory <sup>5</sup>	3
CHEM/MBIO 2750	Elements of Biochemistry 2 <sup>6</sup>	3
HNSC 2000	Research Methods and Presentation	3
HNSC 2140	Basic Principles of Human Nutrition	3
HNSC 2150	Composition, Functional and Nutritional Properties of Foods	3
HNSC 3220	Food and Nutrition Literacy Education	3
HNSC 3300	Vitamins and Minerals in Human Health	3
HNSC 3310	Macronutrients and Human Health	3
HNSC 3330	Ingredient Technology for Designed Foods	3
HNSC 4100	Current Issues in Food and Human Nutrition	3
HNSC 4290	Food, Nutrition and Health Policies	3
One of the following concentrations:		6
Human Nutrition		
Foods		
<b>Total Hours</b>		<b>60</b>

- <sup>1</sup> STAT 2000 (Basic Statistical Analysis 2) can be substituted for AGRI 2400 (Experimental Methods in Agricultural and Food Sciences).
- <sup>2</sup> Students selecting BIOL 1020 and BIOL 1030 are not required to complete BIOL 1410. Under required courses, students must take BIOL 1412 or can substitute both BIOL 1410 and BIOL 1412 with both BIOL 2410 and BIOL 2420.
- <sup>3</sup> Students can hold CHEM 2100 (Organic Chemistry I: Foundations of Organic Chemistry) in place of CHEM 1130 (Introduction to Organic Chemistry).
- <sup>4</sup> Under required courses, students can use either CHEM 2700/MBIO 2700 (Biochemistry 1: Biomolecules and an Introduction to Metabolic Energy) in place of CHEM 2730/MBIO 2730 (Elements of Biochemistry 1).
- <sup>5</sup> Under required courses, students can use CHEM 2720 (Principles and Practices of the Modern Biochemistry Laboratory) in place of CHEM 2740 (Introduction to the Biochemistry Laboratory).
- <sup>6</sup> Under required courses, students can use CHEM 2710/MBIO 2710 (Biochemistry 2: Catabolism, Synthesis, and Information Pathway) in place of CHEM 2750/MBIO 2750 (Elements of Biochemistry 2).
- <sup>7</sup> Students can apply for the Cooperative Education Program. Two work terms are required to graduate with Co-op designation. Co-op courses are 3 credit hours each.

## Concentrations

### Human Nutrition

Course	Title	Hours
HNSC 4300	Community Nutrition Intervention	3
or HNSC 4500	Clinical Nutrition I	
One of the following:		3
HNSC 4310	Nutrition and the Elderly	
HNSC 4340	Maternal and Child Nutrition	
HNSC 4350	Nutrition in Exercise and Sport	
<b>Total Hours</b>		<b>6</b>

### Foods

Course	Title	Hours
Two of the following:		6
HNSC 3260	Food Quality Evaluation	
HNSC 4270	Sensory Evaluation of Food	
HNSC 4540	Functional Foods and Nutraceuticals	
<b>Total Hours</b>		<b>6</b>