

**M.S. DEGREE
IN
FOOD AND NUTRITION
MAJOR IN
NUTRITION AND FOOD SCIENCE
(SPECIALIZATION IN FOOD SCIENCE)**

The major in **Nutrition and Food Science (specialization in Food Science)** includes both thesis and non-thesis options. It is expected that the student will show evidence of having competency in areas of food science, organic chemistry, biochemistry and microbiology at the undergraduate level. Students are required to earn three (3) graduate College of Human Sciences credit hours prior to graduation by attendance in at least one summer term and courses must count toward the degree.

CORE **14 CREDIT HOURS**

FOS 5205	Food Safety and Quality	3
FOS 5424	Food Preservation	3
FOS 5936	Selected Topics in Food Science and Technology	3
FOS 5930r	Seminar in Food and Nutrition Science (S/U)	1
FOS 5930r	Seminar in Food and Nutrition Science	1
HUN 5802 and HUN 5802L	Research Design and Methodology Research Design and Methodology Laboratory	2 1

DEPARTMENTAL ELECTIVES **minimum 9 CREDIT HOURS**

FOS 6351C	Physical and Chemical Techniques in Food and Nutrition	3
HUN 5242	Carbs, Fats and Proteins	3
HUN 5243	Vitamins and Minerals	3
HUN 6248r	Food Immunochemistry (Lecture and Laboratory)	4
HUN 6248r	Food Microbiology (Lecture and Laboratory)	4
HUN 6248r	Food Protein Chemistry (Lecture and Laboratory)	4
HUN 6248r	Technical Writing	4
HUN 5906r	Directed Individual Study (S/U)	1-3
HUN 5910r	Supervised Research (S/U)	1-3
HUN 6940r	Supervised Teaching (S/U)	1-3

OUTSIDE ELECTIVES **CREDIT HOURS**

BCH 5405	Molecular Biology	3
BCH 5745	Chemical and Physical Characterization of Biopolymers	3
BSC 5409	Biophysical Principles of Biological Techniques	3
BSC 5936r	Selected Topics in Biological Sciences: Nanotechnology	2
CHM 5140	Introduction to Chemical Instrumentation	3
CHM 5154	Chemical Separations	3
CHM 5175r	Measurements and Data Analysis in Chemistry	1-3
CHM 5440	Physical and Chemical Kinetics	3
CHM 5585	Experimental Methods in Physical Chemistry	3
EDF 5401	General Linear Model Applications	4
EDF 5402	Advanced Topics in Analysis of Variance Applications	3
EMA 5015C	Nanomaterials and Nanotechnology	3
LIS 5405	Leadership in Technology	3
PCB 5525	Molecular Biology	3
PCB 5936r	Selected Topics in Genetics and Cell Biology: Immunology	3
PET 6931r	Advanced Topics: Career Development	1-4
PSB 5077	Responsible Conduct of Research	2

The Thesis and Non-Thesis Options require minimum 3 and 6 outside elective credit hours, respectively. The above outside elective courses are suggested; however, the course requirement can be decided by the student's committee. Permission to enroll from the department offering the course should be sought by the student in advance of listing the course on the Program of Study.

<u>STATISTICS (one of the following)</u>		<u>CREDIT HOURS</u>
EDF 5400	Basic Descriptive and Inferential Statistics Applications	4
STA 5126	Introduction to Applied Statistics	3
<u>THESIS OPTION</u>		<u>CREDIT HOURS</u>
HUN 5971r	Thesis (S/U)	6
HUN 8976r	Master's Thesis Defense (P/F)	0
<u>NON-THESIS OPTION</u>		<u>CREDIT HOURS</u>
HUN 8966r	Master's Comprehensive Examination (P/F)	0

The Thesis Option requires a minimum of 35 total credit hours. Please select electives carefully as the university requires thesis students to have a minimum of 18 letter-grade hours.

The Non-Thesis Option requires a minimum of 32 total credit hours. Please select electives carefully as the university requires non-thesis students to have a minimum of 21 letter-grade hours.