

**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 5936	Selected Topics in Food Science and Technology	3
FOS 5930	Seminar in Food and Nutrition Science	1
HUN 6248	Food Microbiology (Lecture and Laboratory)	4
HUN 5802 and HUN 5802L	Research Design and Methodology Research Design and Methodology Laboratory	2 1

DEPARTMENTAL ELECTIVES **minimum 6 CREDIT HOURS**

FOS 5424	Food Preservation	3
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 6248	Food Immunochemistry (Lecture and Laboratory)	4
HUN 6248	Food Protein Chemistry (Lecture and Laboratory)	4
HUN 6248	Technical Writing	4
HUN 5906	Directed Individual Study (S/U)	1-3
HUN 5910	Supervised Research (S/U)	1-3
HUN 6940	Supervised Teaching (S/U)	1-3
PET 6931	Cell and Molecular Biology	3

OUTSIDE ELECTIVES **minimum 3 CREDIT HOURS**

BCH 5745	Chemical and Physical Characterization of Biopolymers	3
BSC 5409	Biophysical Principles of Biological Techniques	3
BSC 5936	Selected Topics in Biological Sciences: Nanotechnology	2
CHM 5140	Introduction to Chemical Instrumentation	3
CHM 5154	Chemical Separations	3
CHM 5440	Physical and Chemical Kinetics	3
CHM 5585	Experimental Methods in Physical Chemistry	3
EMA 5015	Nanomaterials and Nanotechnology	3
PCB 5936	Selected Topics in Genetics and Cell Biology: Immunology	3

The above outside elective courses are suggested; however, the course requirement can be decided by the student's committee.

STATISTICS **minimum 4 CREDIT HOURS**

EDF 5400	Basic Descriptive and Inferential Statistics Applications	4
FAD 5700	Applied Research in Human Sciences	4

<u>THESIS OPTION</u>		<u>CREDIT HOURS</u>
HUN 5971	Thesis (S/U)	6
HUN 8976	Master's Thesis Defense (P/F)	0

<u>NON-THESIS OPTION</u>		<u>CREDIT HOURS</u>
HUN 8966	Master's Comprehensive Examination (P/F)	0
Select graduate courses from the suggested departmental and/or outside electives		6

Minimum requirement for both options: 33 credit hours

Please select electives with S/U grading carefully as the university requires thesis students to have a minimum of 18 letter-grade credit hours and non-thesis students to have a minimum of 21 letter-grade credit hours.