

MASTER OF SCIENCE IN FOOD SCIENCE AND NUTRITION, FOOD SCIENCE SPECIALIZATION

Plan A Effective Fall 2021

Code	Title	Credits
Required Courses		
FSHN 692	Seminar	1
FTEC 570	Food Product Development	2
FTEC 572	Food Biotechnology	2
FTEC 574	Current Issues in Food Safety	2
FTEC 576	Cereal Science	2
FTEC 578/HORT 578	Phytochemicals and Probiotics for Health	3
Thesis		
FTEC 699	Thesis	10
Required Statistics/Research Methods – Select one course from the following:		3-4
EDRM 600	Introduction to Research Methods	
EDRM 606	Principles: Quantitative Data Analysis	
EDRM 704	Qualitative Research	
EDRM 705	Qualitative Data Analysis	
PSY 652	Methods of Research in Psychology I	
PSY 653	Methods of Research in Psychology II	
STAR 511	Design and Data Analysis for Researchers I	
Electives		9-10
Select a minimum of 9 credits not taken elsewhere in the program in consultation with the graduate committee (see Example Elective Courses list below)		
Program Total Credits:		35

Example Elective Courses

Code	Title	Credits
ANEQ 565	Interpreting Animal Science Research	3
ANEQ 567	HACCP Meat Safety	2
ANEQ 660	Topics in Meat Safety	1
BC 463	Molecular Genetics	3
BC 513	Enzymology	1
BC 517	Metabolism	2
BC 565	Molecular Regulation of Cell Function	4
BC 665A	Advanced Topics in Cell Regulation: Microscopic Methods	2
BC 665B	Advanced Topics in Cell Regulation: Modern Methods	2
BC 701	Grant Proposal Writing and Reviewing	1
BMS 500	Mammalian Physiology I	4
BMS 501	Mammalian Physiology II	4
CBE 504/BIOM 504	Fundamentals of Biochemical Engineering	3

CHEM 431	Instrumental Analysis	4
CM 502/NB 502	Techniques in Molecular & Cellular Biology	2
EDRM 600	Introduction to Research Methods	3
EDRM 606	Principles: Quantitative Data Analysis	3
EDRM 704	Qualitative Research	3
EDRM 705	Qualitative Data Analysis	3
ERHS 510/VS 510	Cancer Biology	3
ERHS 611	Cancer Genetics	2
FSHN 500	Food Systems, Nutrition, and Food Security	2
FSHN 540	Nutrigenomics and Advanced Lipid Metabolism	3
FSHN 550	Advanced Nutritional Science I	3
FSHN 551	Advanced Nutritional Science II	3
FSHN 561	International Nutrition Studies	2
FSHN 600	Responsible Conduct of Research	1
FSHN 640	Selected Topics in Nutritional Epidemiology	2
FSHN 650A	Recent Developments in Human Nutrition: Protein, Vitamins, and Minerals	2
FSHN 650B	Recent Developments in Human Nutrition: Carbohydrates, Lipids, and Energy	2
FSHN 650C	Recent Developments in Human Nutrition: Genomic, Proteomics, and Metabolomics	2
FSHN 695A	Independent Study: Food Science	1-3
FSHN 696A	Group Study: Food Science	1-3
HORT 401	Medicinal and Value-Added Uses of Plants	3
JTC 662	Communicating Science and Technology	3
MIP 334	Food Microbiology	3
MIP 335	Food Microbiology Laboratory	2
MIP 443	Microbial Physiology	4
MIP 450	Microbial Genetics	3
MIP 533/VS 533	Epidemiology of Infectious Diseases/ Zoonoses	3
MIP 555	Principles and Mechanisms of Disease	3
MIP 624	Advanced Topics in Microbial Ecology	2
MIP 651	Immunobiology	3
PSY 652	Methods of Research in Psychology I	4
PSY 653	Methods of Research in Psychology II	4
SOCR 755	Advanced Soil Microbiology	3
STAR 511	Design and Data Analysis for Researchers I	4
STAR 512	Design and Data Analysis for Researchers II	4
VS 562	Applied Data Analysis	3

A minimum of 35 credits are required to complete this program.