

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

Plan B Effective Summer 2021

Code	Title	Credits
Required Courses		12
FSHN 692	Seminar	
FTEC 570	Food Product Development	
FTEC 572	Food Biotechnology	
FTEC 574	Current Issues in Food Safety	
FTEC 576	Cereal Science	
FTEC 578/ HORT 578	Phytochemicals and Probiotics for Health	
Research Project		4
FTEC 698	Research	
Required Statistics/Research Methods Courses – 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	
STAR 512	Design and Data Analysis for Researchers II	
Electives		15-16
Select a minimum of 15 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.