

# PH.D. IN FOOD SCIENCE AND NUTRITION, NUTRITION SPECIALIZATION

## Requirements Effective Fall 2021

Code	Title	Credits
<b>Required Courses</b>		
FSHN 550	Advanced Nutritional Science I	3
FSHN 551	Advanced Nutritional Science II	3
FSHN 600	Responsible Conduct of Research	1
or GRAD 544	Ethical Conduct of Research	
FSHN 640	Selected Topics in Nutritional Epidemiology	2
FSHN 692	Seminar	2
Select one course from the following:		2
FSHN 650A	Recent Developments in Human Nutrition: Protein, Vitamins, and Minerals	
FSHN 650B	Recent Developments in Human Nutrition: Carbohydrates, Lipids, and Energy	
FSHN 650C	Recent Developments in Human Nutrition: Genomic, Proteomics, and Metabolomics	
Statistics/Research Methods – Select two courses from the following:		6-8
EDRM 600	Introduction to Research Methods (OR)	
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	
<b>Dissertation (minimum 10 credits)</b>		
FSHN 799	Dissertation-Nutrition	10
<b>Electives</b>		<b>11-13</b>
Select a minimum of 11 credits not taken elsewhere in the program in consultation with the graduate committee (see example Elective Courses list below)		
<b>Master's Degree Credit (a maximum of 30 credits may be accepted from a master's degree)</b>		<b>30</b>

## Example Elective Courses

Code	Title	Credits
BC 401	Comprehensive Biochemistry I	3
BC 403	Comprehensive Biochemistry II	3
BC 465	Molecular Regulation of Cell Function	3
BC 517	Metabolism	2
BC 565	Molecular Regulation of Cell Function	4
BC 663	Gene Expression	2
BIOM 526/ECE 526	Biological Physics	3
BMS 430	Endocrinology	3

BMS 500	Mammalian Physiology I	4
BMS 501	Mammalian Physiology II	4
BMS 505/NB 505	Neuronal Circuits, Systems and Behavior	3
BMS 610A	Managing a Career in Science: Survival Skills for Coursework (M.S.)	1
BMS 631	Mechanisms of Hormone Action	2
BMS 632	Metabolic Endocrinology	2
BZ 455	Human Heredity and Birth Defects	3
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 542	Biostatistical Methods for Qualitative Data	3
ERHS 544/STAT 544	Biostatistical Methods for Quantitative Data	3
ERHS 567	Cell and Molecular Toxicology Techniques	3
ERHS 611	Cancer Genetics	2
FSHN 445/HDFS 445	Early Childhood Health, Safety, and Nutrition	3
FSHN 496A	Group Study in Dietetics and Nutrition: Energy, Weight Management	1
FSHN 496B	Group Study in Dietetics and Nutrition: Sustainable Food Issues	1
FSHN 496C	Group Study in Dietetics and Nutrition: Nutrition and Chronic Disease	1
FSHN 496D	Group Study in Dietetics and Nutrition: Nutrition for Athletes	1
FSHN 496E	Group Study in Dietetics and Nutrition: Food Safety	1
FSHN 496F	Group Study in Dietetics and Nutrition: Service Marketing	1
FSHN 496G	Group Study in Dietetics and Nutrition: Food and Consumer Issues	1
FSHN 496H	Group Study in Dietetics and Nutrition: Public Health and Policy	1
FSHN 496I	Group Study in Dietetics and Nutrition: Special Topics	1
FSHN 500	Food Systems, Nutrition, and Food Security	2
FSHN 520	Advanced Medical Nutrition Therapy	3
FSHN 525	Nutrition Education Theories and Practice	2
FSHN 540	Nutrigenomics and Advanced Lipid Metabolism	3
FSHN 561	International Nutrition Studies	2
FSHN 620	Community Nutrition Planning and Evaluation	3
FSHN 628	Advanced Nutrition Counseling Techniques	2
FSHN 630/HES 630	Integrative Exercise and Nutrition Metabolism	3
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 660	Women's Issues in Lifecycle Nutrition	2

FSHN 686A	Practicum: Counseling	1-3
FSHN 686B	Practicum: Nutrition	1-3
FSHN 695B	Independent Study: Nutrition	1-3
FSHN 700	Cellular Nutrition	2
FSHN 750	Nutritional Basis of Chronic Disease	2
FSHN 792	Seminar-Research Topics in Nutrition	1
FSHN 795	Independent Study	1-4
FTEC 570	Food Product Development	2
FTEC 578/HORT 578	Phytochemicals and Probiotics for Health	3
GRAD 792	Seminar on College Teaching	2
HDFS 608	Program Planning and Implementation	3
HES 603	Advanced Topics in Exercise Physiology	3
HES 610	Exercise Bioenergetics	3
JTC 614	Public Communication Campaigns	3
JTC 630	Health Communication	3
JTC 661	Information Design	3
JTC 662	Communicating Science and Technology	3
MIP 540	Biosafety in Research Laboratories	2
MIP 555	Principles and Mechanisms of Disease	3
MIP 612	Applied Immunology	3
MIP 614	Medical Microbiology	3
PSY 652	Methods of Research in Psychology I	4
PSY 653	Methods of Research in Psychology II	4
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

Most students entering this Ph.D. program will bring in 30 credits from a Master's program in a related field. The above curriculum represents a total of 42 credits beyond the Master's level. If a prospective student has less than 30 credits toward the program, an individualized curriculum plan will be developed by working with a primary advisor to cover possible deficiencies.