

Friedman Core*

Nutrition science	Quantitative reasoning	Policy and programs	Experiential learning
NUTR 370/371: Nutritional Biochemistry and Physiology: Macronutrients/ Micronutrients	NUTR 206: Biostatistics 1	NUTR 203 <u>OR</u> NUTR 215 <u>OR</u> NUTR 238 <u>OR</u> NUTB 206**	NUTR 236: Practicum in Bioresearch Techniques
2 courses, (6-9CR, FALL/SPR)	1 course, (3CR, FALL)	1 course, (VARIES)	1 course, (3CR, FALL)

Specialization Requirements

Required courses	Recommended courses	Related courses
NUTR 204: Principles of Epidemiology • 3CR, FALL/SPR	NUTR 225: Introduction to Modern Biology Techniques • 1.5CR, FALL	NUTR 346: Simulating Biophysical Processes • 3CR, FALL
BCHM 223: Graduate Biochemistry • 6CR, FALL	NUTB 243: Nutrition, Brain and Behavior • 1.5CR, FALL
.....	NUTR 248: Precision Nutrition • 3CR, SPR	NUTR 348: Biomedical Data Science • 1.5CR, SPR
NUTR 240: Nutrition Science Journal Club • 0CR, SPR	NUTR 272: Nutrition, Physical Activity and Health • 3CR, SPR
NUTR 309: Biostatistics 2 • 3CR, SPR	NUTR 319: Intermediate Epidemiology • 3CR, SPR	Microbial Communities and the Human Microbiome***
	Physiological Mechanisms of Health and Disease***
	NUTB 316: Advanced Medical Nutrition Therapy • 3CR, SUM	Statistical Methods for Microbiome Data Analysis***
	NUTR 397: Directed Study • 3CR, VARIES	

Skills and Knowledge Gained

Demonstrate understanding and a working knowledge of macronutrient and micronutrient metabolism, bioavailability, homeostasis, and functions; Knowledge about biostatistical and data analysis methods for biomedical sciences; Practical and experiential methodology for carrying out laboratory experiments in nutrition sciences; Apply appropriate study designs and experimental methods to advance and resolve gaps and controversies in nutrition science; Ability to critically read and evaluate the literature in nutrition sciences; Identify gaps and controversies in the relationships between nutrients and disease prevention or promotion.

*This specialization is particularly appropriate for students who want to pursue a PhD. Some courses may require prerequisites beyond the school-wide requirements; please contact the Dean for Education for more information, or if you would like to request an exemption or substitution from any of the core courses.

** NUTR203: Fundamentals of Nutrition Policy and Programs; NUTR 215: Fundamentals of US Agriculture; NUTR 238: Economics of Food, Agriculture and Nutrition ; NUTB 206: Global Nutrition Policy and Programs

*** Indicates a course that offered at Harvard School or Boston University Schools of Public Health