

NUTRITION AND FOOD SCIENCE MAJOR, FOOD SCIENCE CONCENTRATION (B.S.) (COMBINED B.S./M.S. NUTRITION AND FOOD SCIENCE)

A Combined Degree program enables undergraduate students to enroll in graduate courses in their senior year, which can be counted towards the completion of both their Bachelor's and Master's degree requirements.

The ability to take these "swing courses" allows students to earn both their Bachelor's and Master's degrees in a shortened period of time, typically within five years of intensive study. Undergraduate students interested in this option can find more information regarding program requirements on the University's Combined Programs website (<https://www.montclair.edu/combined-programs/programs-of-study/>).

Program Requirements Overview

Code	Title	Credits
	General Education Requirements	29
	World Languages and Cultures Requirements	3-6
	Major Requirements	68
	Graduate Swing Courses	12
	Free Electives	8-5
	Total Credits	120

Major Requirements

Requirements for the graduate portion of this combined program can be found here (<http://catalog.montclair.edu/programs/nutrition-food-science-ms/>).

Code	Title	Credits
Nutrition and Food Science Core		
NUFD 130	Introduction to Nutrition and Food Science Profession	1
NUFD 150	Food Composition and Scientific Preparation	3
NUFD 153	Dynamics of Food and Society	3
NUFD 192	Nutrition with Laboratory	4
NUFD 240	Sanitation Management and Food Microbiology: Certification	1
NUFD 258	Experimental Food Science	3
NUFD 381	Applied Nutrition in the Lifecycle	3
Food Science Concentration Courses		
NUFD 253	Quantity Food Purchasing and Production	3
NUFD 299	Professional Development for Careers in Nutrition, Food Science and Wellness	3
NUFD 358	Principles of Food Science	3
NUFD 387	Molecular Cuisine	3
NUFD 436	Sensory Evaluation of Foods	3
NUFD 446	Food Processing and Preservation	3
NUFD 456	Research in Foods	3

Complete two of the following: 6

NUFD 300	Fundamentals of Healthy Cuisine	
NUFD 310	International Cultures and Cuisines	
NUFD 473	Food Regulations and Compliances	
NUFD 476	Food Ethics, Sustainability and Alternatives	

Collateral Courses		
BIOL 100	Biological Sciences	4
BIOL 254	Applied Microbiology	3
CHEM 113	Fundamentals of Chemistry	4
CHEM 130	Fundamentals of Organic Chemistry	4
CHEM 270	Fundamentals of Biochemistry	5
STAT 109	Statistics	3

Total Credits 68

Graduate Swing Courses

A combined degree program allows students to complete 6-12 graduate credits ("graduate swing courses") while enrolled as an undergraduate. These courses count for both their bachelor and master's degrees. Graduate swing courses will count toward undergraduate free electives, unless noted otherwise.

The Graduate Swing Courses for this program:

Code	Title	Credits
NUFD 505	Research in Nutrition and Food Science	3
NUFD 580	Current Applications in Nutrition	3
NUFD 587	Practicum	3
	Complete one 500-level elective with advisor approval.	3
	Total Credits	12

General Education Requirements

Click here for a list of courses that fulfill General Education categories. (<http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/general-ed-ba-bs/>)

Code	Title	Credits
A. New Student Seminar		
	Complete a 1 credit New Student Seminar course.	1
C. Communication		
	1. Writing	3
	2. Literature	3
	3. Communication	3
D. Fine and Performing Arts		
	Complete a 3 credit Fine and Performing Arts course.	3
F. Humanities		
	1. Great Works and Their Influences	3
	2. Philosophical and Religious Perspectives	3
G. Computer Science		
	Complete a 3 credit Computer Science course.	3
H. Mathematics		
	STAT 109 Statistics (Fulfilled in the major.)	
I. Natural Science Laboratory		
	NUFD 192 Nutrition with Laboratory (Fulfilled in the major.)	
J. Physical Education		

Complete a 1 credit Physical Education course. 1

K. Social Science

1. American and European History 3

2. Global Cultural Perspectives 3

3. Social Science Perspectives

NUFD 153	Dynamics of Food and Society (Fulfilled in the major.)	
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L. Interdisciplinary Studies

NUFD 150	Food Composition and Scientific Preparation (Fulfilled in the major.)	
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Total Credits 29

World Languages and Cultures Requirements

Click here for a list of courses that fulfill World Languages and Cultures categories. (<http://catalog.montclair.edu/undergraduate-graduate-degree-requirements/world-languages-cultures-requirement/>)

Code	Title	Credits
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A. World Languages

Based on placement exam complete one or two sequential courses in 3-6 one language.

B. World Cultures

NUFD 153	Dynamics of Food and Society (Fulfilled in the major.)	
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Total Credits 3-6

Recommended Roadmap to Degree(s)

This recommended five-year plan is provided as an outline for students to follow in order to complete their degree requirements within five years. This plan is a recommendation and students should only use it in consultation with their academic advisor.

Fifth year courses are taken at the graduate level, after matriculation into the graduate portion of this combined degree program.

Course	Title	Credits
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First Year

Fall

GENERAL EDUCATION: (A) New Student Seminar		1
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GENERAL EDUCATION: (C1) Writing		3
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GENERAL EDUCATION: (D) Fine and Performing Arts		3
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NUFD 130	Introduction to Nutrition and Food Science Profession	1
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NUFD 150	Food Composition and Scientific Preparation	3
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NUFD 153	Dynamics of Food and Society	3
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Credits 14

Spring

GENERAL EDUCATION: (C2) Literature		3
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World Language I		3
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CHEM 113	Fundamentals of Chemistry	4
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NUFD 192	Nutrition with Laboratory	4
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STAT 109	Statistics	3
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Credits 17

Second Year

Fall

GENERAL EDUCATION: (C3) Communication		3
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GENERAL EDUCATION: (J) Physical Education		1
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CHEM 130	Fundamentals of Organic Chemistry	4
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NUFD 240	Sanitation Management and Food Microbiology: Certification	1
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NUFD 253	Quantity Food Purchasing and Production	3
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NUFD 258	Experimental Food Science	3
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Credits 15

Spring

BIOL 100	Biological Sciences	4
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BIOL 254	Applied Microbiology	3
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CHEM 270	Fundamentals of Biochemistry	5
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NUFD 387	Molecular Cuisine	3
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Credits 15

Third Year

Fall

GENERAL EDUCATION: (F1) Humanities – Great Works and Their Influences		3
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GENERAL EDUCATION: (F2) Philosophical and Religious Perspectives		3
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World Languages II		3
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NUFD 358	Principles of Food Science	3
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NUFD 381	Applied Nutrition in the Lifecycle	3
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Credits 15

Spring

GENERAL EDUCATION: (G) Computer Science		3
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GENERAL EDUCATION: (K1) Social Science – American and European History		3
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GENERAL EDUCATION: (K2) Social Science – Global Cultural Perspectives		3
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NUFD 436	Sensory Evaluation of Foods	3
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NUFD 446	Food Processing and Preservation	3
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Credits 15

Fourth Year

Fall

NUFD 299	Professional Development for Careers in Nutrition, Food Science and Wellness	3
NUFD 473	Food Regulations and Compliances	3
NUFD 476	Food Ethics, Sustainability and Alternatives	3
NUFD 580	Current Applications in Nutrition	3
Complete one 500-level elective, with advisor approval.		3
Credits		15

Spring

NUFD 456	Research in Foods	3
NUFD 505	Research in Nutrition and Food Science	3
NUFD 587	Practicum	3
Free Electives		5
Credits		14
Total Credits		120

Course Title Credits

Fifth Year

Fall

NUFD 501	Principles of Nutrition	3
NUFD 506	Research and Evaluation in Nutrition and Food Science	3
NUFD 595	Principles of Food Science	3
Elective		3
Credits		12

Spring

NUFD 509 or NUF 698	Research Seminar (and Comprehensive Exam) or Master's Thesis	3-4
Elective		3
Elective		3
Credits		9-10
Total Credits		21-22