FOOD SCIENCE AND TECHNOLOGY (SCIENCE, TECHNOLOGY AND ENGINEERING) - BACHELOR OF SCIENCE IN FOOD SCIENCE AND TECHNOLOGY

Food science is the science of food. Food scientists study the physical microbiological, and chemical makeup of food. Food technology is the application of food science to the selection, preservation, processing, packaging, distribution, and use of safe food. The food industry is the largest manufacturing industry in the United States. This multidisciplinary field applies scientific disciplines including chemistry, microbiology, nutrition and engineering to develop new food products as well as the processes designed to improve food safety and the quality of foods. Food scientists develop new foods, add value to raw food commodities and improve the quality and safety of foods.

Consider exploring food science through our introductory course: FSTE 2110G Food Science I which fulfills the general education Area III Laboratory Science requirement. Food scientists typically work in the food and beverage industry in the areas of quality assurance, product development, product procurement, research, sensory evaluation, sales, and food safety regulations. Graduates of the program will also be prepared for postgraduate studies leading to research, production and management careers in the food and feed industries, government and academia.

A minimum grade of C- is required in all classes with CHEM, BCHE, BIOL, FSTE, or NUTR prefix.

Requirements

Students must complete all University degree requirements, which include: General Education requirements, Viewing a Wider World requirements, and elective credits to total at least 120 credits with 48 credits in courses numbered 300 or above. Developmental coursework will not count towards the degree requirements and/or elective credits, but may be needed in order to take the necessary English and Mathematics coursework.

Prefix	Title	Credits
General Education		
Area I: Communications		
English Composition - L	evel 1 ¹	4
English Composition - L	evel 2	
ENGL 2210G	Professional and Technical Communication Honors	3
or ENGL 2210H	Professional and Technical Communication Honors	
Oral Communication ¹		3
Area II: Mathematics		
MATH 1430G	Applications of Calculus I ²	3
Area III/IV: Laboratory Sciences and Social/Behavioral Sciences		
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4

FSTE 2130G Survey of Food and Agricultural Issues Area V: Humanities 1 Area V: Creative and Fine Arts 1 General Education Elective BIOL 2110G Principles of Biology. Cellular and Molecular & BIOL 2110L Biology	CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
Area VI: Creative and Fine Arts General Education Elective BIOL 2110G Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology and Principles of Biology. Cellular and Molecular Biology Laboratory Viewing A Wider World Departmental Requirements FSTE 2110G Food Science I	FSTE 2130G	Survey of Food and Agricultural Issues	3
General Education Elective BIOL 2110G Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Abloecular Biology Laboratory Viewing A Wider World Solence I FSTE 2110G Food Science I FSTE 2110G Food Microbiology FSTE 4110 Food Microbiology FSTE 4120 Food Chemistry 30 FSTE 4130 Food Preservation 30 FSTE 4140 Food Analysis 30 FSTE 4150 Food Safety 30 FSTE 4150 Food Safety 30 FSTE 4250 Sensory Evaluation of Foods and Product Development NUTR 2110 Human Nutrition 30 FSTE 4250 Sensory Evaluation of Foods and Product Development NUTR 2110 Human Nutrition 30 FSTE 1210 ACES in the Hole Foods II FSTE 2120 ACES in the Hole Foods II FSTE 3110 Professional Development in Food Science 1 FSTE 310 Professional Development in Food Science 1 FSTE 310 Algebra-Based Physics I 30 FSTE 395 Biochemistry I 30 BCHE 395 Bio	Area V: Humanities 1		3
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Electives, to bring the total credits to 120 ⁴	MATH 1350G	Introduction to Statistics	
	Second Language:	(not required)	
Total Credits 121	Electives, to bring t	he total credits to 120 ⁴	17
	Total Credits		121

- See the General Education (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/) Section of the catalog for a full list of courses
- MATH 1430G Applications of Calculus I is required for the degree but students may need to take any prerequisites needed to enter MATH 1430G first.
- See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/general-education-viewing-wider-world/#viewingawiderworldtext)
 Section of the catalog for a full list of courses
- Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120

15

credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.

A Suggested Plan of Study for Students

This roadmap assumes student placement in MATH 1430G Intermediate Algebra and ENGL 1110G Rhetoric and Composition. The contents and order of this roadmap may vary depending on initial student placement in mathematics and english. It is only a suggested plan of study for students and is not intended as a contract. Course availability may vary from fall to spring semester and may be subject to modification or change.

Fall		
English Composition - Level 1 Course ¹		4
Area V/VI: Humanitie	s or Creative/ Fine Arts Course ^{1,2}	3
CHEM 1215G	General Chemistry I Lecture and Laboratory for STEM Majors	4
FSTE 2110G	Food Science I	4
	Credits	15
Spring		
Oral Communication Course ¹		3
Area V/VI: Humanities or Creative/ Fine Arts Course 1,2		3
CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4
FSTE 1120	ACES in the Hole Foods I	4
Elective Course ³		1

Credits

Second Year

First Year

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	Credits	15
FSTE 2120	ACES in the Hole Foods II	4
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4
NUTR 2110	Human Nutrition	3
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4
Spring	Credits	14
Elective Course ³	0 15	2
MATH 1430G	Applications of Calculus I ⁴	3
CHEM 2120	Integrated Organic Chemistry and Biochemistry	3
BCIS 1110	Introduction to Information Systems	
AEEC 2140	Technology and Communication for Business Management	
Choose one from the	following:	3
or ENGL 2210H	Professional and Technical Communication Honors or Professional and Technical Communication Honors	3
ENIOL 00100	B ('	

	Credits
FSTE 2120	ACES in the Hole Foods II
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab

Third Year

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Choose one from the following:		3
A ST 311	Statistical Applications	

	Total Credits	121
	Credits	14
Elective Course ³		7
FSTE 4998	ACES Foods at NMSU-Experiential Learning	1
Viewing a Wider World	d ⁵	3
Spring FSTE 4130	Food Preservation	3
	Credits	15
ANSC 2310	Introduction to Meat Science	3
FSTE 4250	Sensory Evaluation of Foods and Product Development	3
BCHE 395	Biochemistry I	3
FSTE 2130G	Survey of Food and Agricultural Issues	3
Fall Viewing the Wider Wo	orld ⁵	3
Fourth Year		
	Credits	15
Elective Course ³		4
FSTE 4230	Food Processing Technologies	4
FSTE 4140	Food Analysis	3
FSTE 4120	Food Chemistry	3
Spring FSTE 3110	Professional Development in Food Science	1
	Credits	18
Elective Course 4		3
FSTE 4150	Food Safety	3
FSTE 4110	Food Microbiology	4
& 311 L	General Microbiology and General Microbiology Laboratory	э
BIOL 311		5
MATH 1350G	Introduction to Statistics	

- See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-viewing-wider-world/) Section of the catalog for a full list of courses
- Students must take one Area V: Humanities and one Area VI: Creative and Fine Arts course in order to complete the General Education
- Elective credit may vary based on prerequisites, dual credit, AP credit, double majors, and/or minor coursework. The amount indicated in the requirements list is the amount needed to bring the total to 120 credits and may appear in variable form based on the degree. However students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.
- MATH 1430G Applications of Calculus I is required for the degree but students may need to take any prerequisites needed to enter MATH 1430G first.
- See the Viewing a Wider World (https://catalogs.nmsu.edu/nmsu/ general-education-viewing-wider-world/#viewingawiderworldtext) Section of the catalog for a full list of courses