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, goverment 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 - Level 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

CHEM 1225G	General Chemistry II Lecture and Laboratory for STEM Majors	4	
FSTE 2130G	Survey of Food and Agricultural Issues	3	
Area V: Humanities ¹		3	
Area VI: Creative and F	ine Arts ¹	3	
General Education Elec	stive		
BIOL 2110G & BIOL 2110L	Principles of Biology: Cellular and Molecular Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	4	
Viewing A Wider Worl	d ³	6	
Departmental Require	ements		
FSTE 2110G	Food Science I	4	
FSTE 4110	Food Microbiology	4	
FSTE 4120	Food Chemistry	3	
FSTE 4130	Food Preservation	3	
FSTE 4140	Food Analysis	3	
FSTE 4150	Food Safety	3	
FSTE 4230	Food Processing Technologies	4	
FSTE 4250	Sensory Evaluation of Foods and Product Development	3	
NUTR 2110	Human Nutrition	3	
Science, Technology ar	nd Engineering Concentration		
FSTE 1120	ACES in the Hole Foods I	4	
FSTE 2120	ACES in the Hole Foods II	4	
FSTE 3110	Professional Development in Food Science	1	
FSTE 4998	ACES Foods at NMSU-Experiential Learning	1	
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4	
Non-Departmental Re	equirements		
ANSC 2310	Introduction to Meat Science	3	
BCHE 395	Biochemistry I	3	
BIOL 311 & 311 L	General Microbiology and General Microbiology Laboratory	5	
CHEM 2120	Integrated Organic Chemistry and Biochemistry	3	
Choose one course from	m the following:	3	
AEEC 2140	Technology and Communication for Business Management		
BCIS 1110	Introduction to Information Systems		
Choose one course from	m the following:	3	
A ST 311	Statistical Applications		
MATH 1350G	Introduction to Statistics		
Second Language: (no	ot required)		
Electives, to bring the	e total credits to 120 ⁴	17	
Total Credits		121	
¹ See the General Education (https://catalogs.nmsu.edu/nmsu/general-			

education-viewing-wider-world/) Section of the catalog for a full list of courses

² 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.

³ 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

⁴ 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

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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.