FOOD SCIENCE AND TECHNOLOGY (MEAT SCIENCE) - 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 2130G Survey of Food and Agricultural Issues 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.

Students are encouraged to use the elective hours to complete a minor in a related area such as chemistry, microbiology, and business. Consult an advisor for requirements.

Prefix	Title	Credits
General Education		
Area I: Communications	3	
English Composition - Level 1 ¹		
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	Fine Arts ¹	3
General Education El	ective	
BIOL 2110G	Principles of Biology: Cellular and Molecular	4
& BIOL 2110L	Biology and Principles of Biology: Cellular and Molecular Biology Laboratory	
Viewing A Wider Wo		6
ANSC 351V	Agricultural Animals of the World	
Departmental Requi	•	
FSTE 2110G	Food Science I	4
FSTE 4110	Food Microbiology	4
FSTE 4140	Food Analysis	3
FSTE 4130	Food Preservation	3
FSTE 4130	Food Chemistry	3
FSTE 4120	•	4
	Food Processing Technologies	
FSTE 4250	Sensory Evaluation of Foods and Product Development	3
FSTE 4150	Food Safety	3
NUTR 2110	Human Nutrition	3
Meat Science Concer	ntration	
ANSC 2330	Animal Production	3
ANSC 301	Animal and Carcass Evaluation	3
PHYS 1230G & PHYS 1230L	Algebra-Based Physics I and Algebra-Based Physics I Lab	4
Non-Departmental F	Requirements	
ANSC 2310	Introduction to Meat Science	3
BCHE 395	Biochemistry I	3
BIOL 311	General Microbiology	5
& 311 L	and General Microbiology Laboratory	
CHEM 2120	Integrated Organic Chemistry and Biochemistry	3
Choose one course fr	om following:	3
AEEC 2140	Technology and Communication for Business Management	
BCIS 1110	Introduction to Information Systems	
Choose one course fr	om following:	3
A ST 311	Statistical Applications	
MATH 1350G	Introduction to Statistics	
Second Language: (not required)	
Electives, to bring th	ne total credits to 120 ⁴	21
Total Credits		121

- ¹ See the General Education (https://catalogs.nmsu.edu/nmsu/generaleducation-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 credits and may appear in variable form based on the degree. However

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students may end up needing to complete more or less on a case-bycase basis and students should discuss elective requirements with their advisor.