BACHELOR OF SCIENCE IN FOOD AND NUTRITION IN BUSINESS AND INDUSTRY (FOOD SCIENCE)

Web Site: https://twu.edu/nutrition-food-sciences/undergraduateprograms/bs-in-food-and-nutrition-in-business-and-industry/

The Bachelor of Science in Food and Nutrition in Business and Industry (Food Science) track provides students with coursework and experience that will make them more employable in the Food Production Industry. Graduates will be able to pursue employment in aspects of food or nutrition, particularly in quality control and quality assurance, food product development, food and nutrition management software, sales, marketing, or research.

Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (https://reportcenter.highered.texas.gov/agencypublication/miscellaneous/thecb-60x30-strategic-plan/) as, "Those skills valued by employers that can be applied in a variety of work settings, including interpersonal, cognitive, and applied skills areas. These skills can be either primary or complementary to a major and are acquired by students through education, including curricular, co-curricular, and extracurricular activities."

- Communication skills and adaptability ability to work collaboratively as a part of a team to reach a common goal, including the development of new products.
- Sound grasp of core science relating to food, including Food Chemistry, Microbiology and Food Safety, and working knowledge of Food Engineering, Food Packaging, and Marketing.
- c. Math competence and ability to use in creating formulations from kitchen-developed recipes.
- d. Knowledge management with the ability to access, create, and store information for internal access while maintaining confidentiality.
- e. Culinary basics.
- f. Creativity and ideation training with the ability to use facts from accurate and untainted research to drive decision-making.
- g. Business acumen derived from introductory courses in Management, Marketing, and Consumer Behavior.
- h. Strategic agility and organizational skills allowing to creatively identify alternative paths in problem-solving.

Admissions

All applicants must meet the general undergraduate admission requirements (http://catalog.twu.edu/undergraduate/admission-information/).

Degree Requirements

Total Semester Credit Hours (SCH): 121

Major: 40 SCH Required Minor: 18 SCH

Program Code: ; CIP Code: 19.0501.00

Texas Core Curriculum

Code	Title	SCHs
ENG 1013	Composition I	3
ENG 1023	Composition II	3
Mathematics		3
Life & Physical Scie	ences	6
Language, Philoso	phy, & Culture	3
Creative Arts		3
HIST 1013	History of the United States, 1492-1865	3
HIST 1023	History of the United States, 1865 to the Present	3
POLS 2013	U.S. National Government	3
POLS 2023	Texas Government	3
Social & Behaviora	l Sciences	3
CAO: Women's Stu	dies	3
CAO: First Year Ser	ninar, Wellness or Mathematics	3
Total SCHs		42

Courses Required for Major

Code	Title	SCHs
NFS 1302 & NFS 1301	Food Preparation Principles and Food Preparation Principles Laboratory	3
NFS 2033 & NFS 2031	Food Microbiology and Food Microbiology Laboratory	4
NFS 2323	Introduction to Nutrition	3
NFS 2343	Nutritional Management for the Family and Child	3
NFS 3173	Culture and Food	3
NFS 3323 & NFS 3321	Food Science and Food Science Laboratory	4
NFS 3393	Principles of Culinary Science	3
NFS 4024	Food Product Development	4
NFS 4943	Trends and Controversies in Nutrition and Food Sciences	3
Major courses f	for food science track	
NFS 4123	Sensory Evaluation of Food	3
NFS 4503	Food Processing and Unit Operations	3
NFS 4903	Special Topics (Food Chemistry)	3
NFS 4903	Special Topics (Food Safety)	3
Total SCHs		42

Departmental Requirements

Code	Title	SCHs
BIOL 1113 & BIOL 1111	Principles of Biology I and Principles of Biology I Laboratory (may be applied from core)	4
CHEM 1213 & CHEM 1211	Principles of Chemistry I and Principles of Chemistry Laboratory I (may be applied from core)	4
CHEM 1223 & CHEM 1221	Principles of Chemistry II and Principles of Chemistry Laboratory II (may be applied from core)	4

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Total SCHs		44
Electives		6
SPCH 1013	Oral Communication	3
MKT 4213	Consumer Behavior	3
MKT 3113	Principles of Marketing	3
MATH 1703	Elementary Statistics I (may be applied from core)	3
MATH 2014	Calculus I (may be applied from core)	4
MATH 1313	Trigonometry (may be applied from core)	3
MATH 1303	College Algebra (may be applied from core)	3
CHEM 3333 & CHEM 3331	Quantitative Chemical Analysis and Quantitative Chemical Analysis Laboratory	4

Recommended Plan of Study

First Year

Fall		TCCN	SCHs
NFS 1302	Food Preparation Principles		3
& NFS 1301	and Food Preparation Principles		
	Laboratory		
ENG 1013	Composition I	ENGL 1301	3
HIST 1013	History of the United States, 1492-1865	HIST 1301	3
MATH 1303	College Algebra	MATH 1314	3
UNIV 1231	Learning Frameworks: The First Year	EDUC 1100,	1
	Experience	EDUC 1200,	
		EDUC 1300	
	SCHs		13
Spring		TCCN	
BIOL 1113	Principles of Biology I	BIOL 1406	4
& BIOL 1111	and Principles of Biology I Laboratory	& BIOL 1106	
HIST 1023	History of the United States, 1865 to	LICT 1202	3
HIST 1023	the Present	HI31 1302	5
ENG 1023	Composition II	ENGL 1302	3
MATH 1313	Trigonometry	MATH 1316	3
	SCHs		13
Second Year			
Fall		TCCN	
NFS 2323	Introduction to Nutrition	BIOL 1322	3
CHEM 1213			4
& CHEM 1211	and Principles of Chemistry		
	Laboratory I		-
POLS 2013	U.S. National Government	GOVT 2305	3
SPCH 1013	Oral Communication	SPCH 1311	3
MATH 1703	Elementary Statistics I	MATH 1342	3
	SCHs		16
Spring		TCCN	
NFS 3173	Culture and Food		3
CHEM 1223			4
& CHEM 1221	l and Principles of Chemistry Laboratory II		
POLS 2023	Texas Government	GOVT 2306	3
Creative Arts	Core		3

Multicultura	Women's Studies		3
	SCHs		16
Third Year			
Fall		TCCN	
NFS 2033	Food Microbiology		4
& NFS 2031	and Food Microbiology Laboratory		
NFS 2343	Nutritional Management for the Family and Child		3
MATH 2014	Calculus I	MATH 2413	4
NFS 3393	Principles of Culinary Science		З
MKT 3113	Principles of Marketing		З
	SCHs		17
Spring		TCCN	
MKT 4213	Consumer Behavior		З
NFS 3323	Food Science		4
& NFS 3321	and Food Science Laboratory		
CHEM 3333	Quantitative Chemical Analysis		4
& CHEM 333	1 and Quantitative Chemical Analysis		
	Laboratory		
Social/Beha	vioral Sciences Core		3
	SCHs		14
Fourth Year			
Fall		TCCN	
NFS 4943	Trends and Controversies in Nutrition and Food Sciences		3
NFS 4503	Food Processing and Unit Operations		3
NFS 4903	Special Topics (Food Chemistry)		Э
NFS 4903	Special Topics (Food Safety)		3
Elective			Э
	SCHs		15
Spring		TCCN	
NFS 4024	Food Product Development		4
NFS 4123	Sensory Evaluation of Food		3
Language, P	hilosophy, Culture Core		З
Elective			3
Elective			3
	SCHs		16
	Total SCHs:		