

FOOD SCIENCE AND TECHNOLOGY MAJOR WITH SCIENCE CONCENTRATION OPTION

Program Curriculum

Code	Title	Credits
Degree Core Requirements		
ALS 1234	CALS First Year Seminar	1
BCHM 2024	Concepts of Biochemistry	3
BIOL 1105 & BIOL 1115	Principles of Biology and Principles of Biology Laboratory	4
BIOL 1106 & BIOL 1116	Principles of Biology and Principles of Biology Laboratory	4
BIOL 2604 & BIOL 2614	General Microbiology and General Microbiology Laboratory	5
FST 3514	Food Analysis	4
FST/BIOL 3604	Food Microbiology	4
FST 4014	Concepts of Food Product Development	3
FST 4304	Food Processing	3
FST 4504 & FST 4534	Food Chemistry and Food Chemistry Lab	4
FST 4524	Food Safety and Quality Assurance	3
Subtotal		38
Option Required Courses		
CHEM 2535 & CHEM 2536	Organic Chemistry and Organic Chemistry	6
CHEM 2545	Organic Chemistry Laboratory	1
FST 3024	Principles of Sensory Evaluation	3
HNFE 1004	Foods, Nutrition And Exercise	3
PHYS 2205	General Physics	3
Subtotal		16
Restricted Electives		
Select 12 credit hours of the following:		12
APSC/FST 3214	Principles of Meat Science	
BIOL 4674	Pathogenic Bacteriology	
BIOL 4704	Immunology	
CHEM 4554	Drug Chemistry	
FST 2014	Introduction to Food Science	
FST/IS/PSCI 2044	Food, War and Conflict	
FST 2244	Topics in Food Science and Technology ¹	
FST/HNFE 2544	Functional Foods for Health	
FST/HORT 3114	Wines and Vines	
FST 3124	Brewing Science and Technology	
FST 4104	Applied Malting and Brewing Science	

FST 4204	Advanced Topics in Food Science and Technology ¹	
FST 4634	Epidemiology Foodborne Disease	
FST 4974	Independent Study ¹	
FST 4994	Undergraduate Research ¹	
HNFE 3024	Science of Food Prep Lab	
MGT 3304	Management Theory and Leadership Practice	
MKTG 3104	Marketing Management	
	Study Abroad (As approved by FST Academic Advisor) ¹	
Subtotal		12
Free Electives		
Select six credits of free electives		6
Subtotal		6
Pathways to General Education		
<i>Pathways Concept 1 - Discourse</i>		
ENGL 1105	First-Year Writing (1F)	3
ENGL 1106	First-Year Writing (1F)	3
ENGL 3764	Technical Writing (1A)	3
<i>Pathways Concept 2 - Critical Thinking in the Humanities</i>		
Select six credits in Pathway 2 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G02)		6
<i>Pathways Concept 3 - Reasoning in the Social Sciences</i>		
Select six credits in Pathway 3 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G03)		6
<i>Pathways Concept 4 - Reasoning in the Natural Sciences</i>		
CHEM 1035 & CHEM 1045	General Chemistry and General Chemistry Laboratory	4
CHEM 1036 & CHEM 1046	General Chemistry and General Chemistry Laboratory	4
<i>Pathways Concept 5 - Quantitative and Computational Thinking</i>		
MATH 1025	Elementary Calculus (5F)	3
MATH 1026	Elementary Calculus (5F)	3
STAT 3615	Biological Statistics (5A)	3
<i>Pathways Concept 6 - Critique and Practice in Design and the Arts</i>		
Select six credits in Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D) and Pathway 6d (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G06D)		6
<i>Pathways Concept 7 - Critical Analysis of Identity and Equity in the United States</i>		
Select three credits in Pathway 7 (https://catalog.vt.edu/course-search/?attrs_pathways=attrs_pathways_G07)		3
Subtotal		47
Total Credits		119

¹ Credits vary depending on course, maximum of 3 credits allowed for each item.

Graduation Requirements

1. A minimum of 120 credit hours are required for graduation.
2. A minimum 2.0 overall GPA is required for graduation.
3. A minimum 2.0 in-major GPA is required for graduation (only FST courses will be used for in-major GPA calculation).

Foreign Language Requirement

A sequence of 2 foreign languages courses is required for graduation unless 2 high school credits of the same foreign language or 6 transfer credits of foreign language have been earned. These credits do not count toward graduation.

This check sheet contains no hidden prerequisites. Please refer to the Undergraduate Course Catalog or consult your advisor for information about prerequisites.

Eligibility for Continued Enrollment

1. After having attempted 36 semester credits (including transfer, advanced placement, advanced standing, credit by examination, and freshman rule hours), students must have passed at least 12 semester credits of Curriculum for Liberal Education requirements.
2. After having attempted 72 semester credits (including transfer, advanced placement, advanced standing, credit by examination, and freshman rule hours), students must:
 - a. have passed at least 24 semester credits of Curriculum for Liberal Education requirements.
 - b. have passed 9 semester credits in the Food Science and Technology requirements.
 - c. have passed 9 semester credits in the Science Option requirements.