American history (http://catalog.tamu.edu/undergraduate/

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FOOD SCIENCE AND TECHNOLOGY - BS, FOOD SCIENCE OPTION

Program Requirements

First Year		
Fall		Semester
		Credit Hours
CHEM 119	Fundamentals of Chemistry I	4
ENGL 103	Introduction to Rhetoric and Composition	3
or ENGL 104	or Composition and Rhetoric	· ·
FSTC 201	Food Science	3
FSTC 210/ NUTR 210	Horizons in Nutrition and Food Science	1
	p://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/	3
General elective ²		1
	Semester Credit Hours	15
Spring		
BIOL 111	Introductory Biology I	4
CHEM 120	Fundamentals of Chemistry II	4
American history general-informati	3	
history)		
	p://catalog.tamu.edu/undergraduate/ on/university-core-curriculum/	3
	Semester Credit Hours	14
Second Year	Semester Credit Hours	14
,	Semester Credit Hours	14
Second Year	Semester Credit Hours Organic Chemistry I - Structure and Function	14
Second Year Fall	Organic Chemistry I - Structure and	
Second Year Fall CHEM 257	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human	4
Second Year Fall CHEM 257 NUTR 202 or NUTR 203	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government	4
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government	3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following:	3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics	3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202 ECON 203 Language, philosoundergraduate/go	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics Principles of Economics	3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202 ECON 203 Language, philosoundergraduate/go	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics Principles of Economics Principles of Economics ophy and culture (http://catalog.tamu.edu/eneral-information/university-core-	3 3 3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202 ECON 203 Language, philosoundergraduate/go	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics Principles of Economics Principles of Economics phy and culture (http://catalog.tamu.edu/eneral-information/university-core-uage-philosophy-culture) 3	3 3 3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202 ECON 203 Language, philosundergraduate/gecurriculum/#lang	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics Principles of Economics Principles of Economics phy and culture (http://catalog.tamu.edu/eneral-information/university-core-uage-philosophy-culture) 3	3 3 3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202 ECON 203 Language, philosoundergraduate/gocurriculum/#lang Spring	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics Principles of Economics Principles of Economics ophy and culture (http://catalog.tamu.edu/eneral-information/university-coreuage-philosophy-culture) Semester Credit Hours	3 3 3
Second Year Fall CHEM 257 NUTR 202 or NUTR 203 POLS 206 Select one of the AGEC 105 ECON 202 ECON 203 Language, philose undergraduate/ge curriculum/#lang Spring ACCT 209	Organic Chemistry I - Structure and Function Fundamentals of Human Nutrition or Scientific Principles of Human Nutrition American National Government following: Introduction to Agricultural Economics Principles of Economics Principles of Economics Ophy and culture (http://catalog.tamu.edu/eneral-information/university-coreuage-philosophy-culture) Semester Credit Hours Survey of Accounting Principles Organic Chemistry II - Reactivity and	4 3 3 3 3 16

general-information/university-core-curriculum/#american-history)				
Creative arts (http://catalog.tamu.edu/undergraduate/				
arts) ³	on/university-core-curriculum/#creative-			
	Semester Credit Hours	17		
Third Year				
Fall				
CHEM 315	Fundamentals of Quantitative Analysis	3		
CHEM 318	Quantitative Analysis Laboratory	1		
ENGL 210	Technical and Professional Writing	3		
FSTC 311	Principles of Food Processing	3		
POLS 207	State and Local Government	3		
General elective ²		3		
	Semester Credit Hours	16		
Spring				
FSTC 312	Food Chemistry	3		
FSTC 313	Food Chemistry Laboratory	1		
MGMT 309	Survey of Management	3		
Select one of the	following:	3		
STAT 301	Introduction to Biometry			
STAT 302	Statistical Methods			
STAT 303	Statistical Methods			
Select one of the		3		
ANSC 307	Meats			
ANSC 457/ FSTC 457	Hazard Analysis and Critical Control Point System			
FSTC 281	Introduction to Fermentation and Brewing Sciences			
FSTC 305	Fundamental Baking			
FSTC 316	Fermentation Technology for Alternative Protein Production			
FSTC 319	Molecular Methods for Microbial Detection and Characterization			
FSTC 320/ NUTR 320	Understanding Obesity - A Social and Scientific Challenge			
FSTC 324	Food Safety and Preventive Controls for Human Food			
FSTC 416	Precision Fermentation and Future of Foods			
FSTC 420	Supervised Research in Mediterranean Nutrition and Food Processing in Italy			
FSTC 422	Food Processing for Sustainable Nutrition in Brazil			
FSTC 430	Harnessing the Power of Healthy Functional Food Ingredients			
FSTC 485	Directed Studies			
FSTC 489	Special Topics in			
FSTC 491	Research			
HORT 419	Viticulture and Small Fruit Culture			
HORT 420	Concepts of Wine Production			
HORT 421	Enology			
NUTR 211	Scientific Principles of Foods			

NUTR 300/ FSTC 300	Religious and Ethnic Foods	
NUTR 410/ FSTC 410	Nutritional Pharmacometrics of Food Compounds	
POSC 406	Poultry Further Processing	
	Semester Credit Hours	13
Fourth Year		
Fall		
ANSC 326/ FSTC 326	Food Bacteriology	3
ANSC 327/ FSTC 327	Food Bacteriology Lab	1
FSTC 314	Food Analysis	3
Select one of the	following:	3
ANSC 307	Meats	
ANSC 457/ FSTC 457	Hazard Analysis and Critical Control Point System	
FSTC 281	Introduction to Fermentation and Brewing Sciences	
FSTC 305	Fundamental Baking	
FSTC 316	Fermentation Technology for Alternative Protein Production	
FSTC 319	Molecular Methods for Microbial Detection and Characterization	
FSTC 320/ NUTR 320	Understanding Obesity - A Social and Scientific Challenge	
FSTC 324	Food Safety and Preventive Controls for Human Food	
FSTC 416	Precision Fermentation and Future of Foods	
FSTC 420	Supervised Research in Mediterranean Nutrition and Food Processing in Italy	
FSTC 422	Food Processing for Sustainable Nutrition in Brazil	
FSTC 430	Harnessing the Power of Healthy Functional Food Ingredients	
FSTC 485	Directed Studies	
FSTC 489	Special Topics in	
FSTC 491	Research	
HORT 419	Viticulture and Small Fruit Culture	
HORT 420	Concepts of Wine Production	
HORT 421	Enology	
NUTR 211	Scientific Principles of Foods	
NUTR 300/ FSTC 300	Religious and Ethnic Foods	
NUTR 410/ FSTC 410	Nutritional Pharmacometrics of Food Compounds	
POSC 406	Poultry Further Processing	
General elective 2		3
Spring	Semester Credit Hours	13
AGSM 315/ FSTC 315	Food Process Engineering Technology	3
BICH 303 or BICH 410	Elements of Biological Chemistry or Comprehensive Biochemistry I	3

	Total Semester Credit Hours	120
	Semester Credit Hours	16
General electiv	ve ²	3
FSTC 481	Seminar	1
FSTC 444	Fundamentals of Food Law	3
FSTC 401	Food Product Development	3

¹ MATH prefix required.

- Students may earn a chemistry minor by taking 6 hours of additional chemistry courses from an approved list as general electives. See the Department of Chemistry for more details. Students seeking a minor in chemistry must complete the Declaration of Minor in Chemistry form and have it approved by the undergraduate advisor in chemistry and their FSTC advisor.
- The graduation requirements include a requirement for 3 hours of International and Cultural Diversity (http://catalog.tamu.edu/undergraduate/general-information/degree-information/international-cultural-diversity-requirements/) and 3 hours of Cultural Discourse (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/). Selection must be from courses on the approved list. Selection can be courses that also satisfy the requirement for social and behavioral sciences; creative arts; language, philosophy and culture; or electives. For more information on core requirements visit the University Core Curriculum (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/) catalog page.

A total of 120 hours is required for graduation; 36 hours of 300/400 level courses are required to meet the Texas A&M University residency requirement.