Food Science

https://ag.purdue.edu/oap/Pages/major.aspx

120 credits required for graduation

	Credits	Course number	Course Title
Departmental/Program Major Courses (110-111 credits)			
	Required Major Courses (34 credits)		
	3	FS 16100	Science of Food
	1	FS 24500	Food Packaging
	1	FS 29800	Sophomore Seminar
	1	FS 34000	Food Regulations
	2	FS 34100	Food Processing I
	1	FS 34200	Food Processing I Lab
	1	FS 36100	Food Plant Sanitation
	3	FS 36200	Food Microbiology
	2	FS 36300	Food Microbiology Lab
	1	FS 43500	Sensory Science
	2	FS 44200	Food Processing II
	1	FS 44700	Food Processing II Lab
	1	FS 44400	Statistical Process Control
	3	FS 45300	Food Chemistry
	1	FS 45400	Food Chemistry Lab
	3	FS 46700	Food Analysis
	2	FS 46900	Food Analysis Lab
	1	FS 48200	Senior Seminar
	1	FS 53000	Food Ingredients
	3	FS 44300	Food Product Design (Capstone)
	Other Departmental /Program Course Requirements (77-78 credits) (See Advising Resources)		
	0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University
	0.5	AGR 11800	Introduction to Food Science Programs
	4	BIOL 11000	Fundamentals of Biology I
	4	BIOL 11100	Fundamentals of Biology II
	4	BIOL 22100	Introduction to Microbiology
	4	CHM 11500	General Chemistry (satisfies Science #1 for core)
	4	CHM 11600	General Chemistry (satisfies Science #2 for core)
	4	CHM 25700	Organic Chemistry
	1	CHM 25701	Organic Chemistry Lab
	3	BCHM 30700	Biochemistry
	1	BCHM 30900	Biochemistry Lab
	3	MA 16010	Applied Calculus I (satisfies Quantitative Reasoning for core)
	3	MA 16020	Applied Calculus II
	3	NUTR 31500	Fundamentals of Nutrition
	4	PHYS 22000	General Physics
	3	STAT 30100	Elementary Statistical Methods
	3	_____	Economics Selective (satisfies Human Culture Behavioral/Social Science for core)
	3	_____	UCC Humanities Selective (satisfies Human Cultures Humanities for core)
	2 or 3	_____	UCC STS Selective (satisfies Science, Technology & Society Selective for core)
	3	_____	Humanities or Social Science Selective
	3	_____	Humanities or Social Science Selective
	3	_____	Humanities or Social Science Selective (30000+ level)
	3	_____	Professional Communications Selective
	4	ENGL 10600	First-Year Composition (satisfies Written Communication for core) (satisfies Information Literacy for core)
	3	COM 11400 or COM 21700	Fundamentals of Speech Communication or Science Writing and Presentation (satisfies Oral Communication for core)
	3	_____	Written or Oral Communication Selective
Electives (9-10 credits)			
	9-10	_____	Elective

University Core Requirements:

Human Cultures Humanities:		*Science, Technology, and Society:*	
Human Cultures Behavioral/Social Science:		*Written Communication:*	
Information Literacy:		*Oral Communication:*	
Science #1:		*Quantitative Reasoning:*	
Science #2:			

120 semester credits required for Bachelor of Science degree.
2.0 GPA required for Bachelor of Science degree.
Minimum GPA of 2.50 in FS core classes and NUTR 315 is required for graduation
Students must meet a minimum GPA ≥ 2.50 in math and science courses to enroll in upper division FS courses

Fall 2015

Food Science

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Credits	Course number	Course Title	Prerequisites
	Fall 1st Year		
0.5	AGR 10100	Introduction to the College of Agriculture and Purdue University	
0.5	AGR 11800	Introduction to Food Science Academic Programs	
4	BIOL 11000	Fundamentals of Biology I	
4	CHM 11500	General Chemistry	pre/co: calculus
3	FS 16100	Science of Food	
3	MA 16010	Applied Calculus I	ALEKS 75+
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Credits	Course number	Course Title	Prerequisites
	Spring 1st Year		
4	BIOL 11100	Fundamentals of Biology II	BIOL 11000
4	CHM 11600	General Chemistry	CHM 11500
4	ENGL 10600	First-Year Composition	
3	MA 16020	Applied Calculus II	MA 16010
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Credits	Course number	Course Title	Prerequisites
	Fall 2nd Year		
4	BIOL 22100	Intro to Microbiology	BIOL 11000, CHM 11600
4	CHM 25700	Organic Chemistry	CHM 11600
1	CHM 25701	Organic Chemistry Lab	pre/co: CHM 25700
3	COM 11400 or COM 21700	Fundamentals of Speech or Science Writing and Presentation	
1	FS 29800	Sophomore Seminar	
3	STAT 30100	Elementary Statistical Methods	
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Credits	Course number	Course Title	Prerequisites
	Spring 2nd Year		
3	BCHM 30700	Biochemistry	CHM 25700
1	BCHM 30900	Biochemistry Lab	pre/co: BCHM 30700
1	FS 24500	Food Packaging	FS 16100
4	PHYS 22000	General Physics	
3	_____	Economics Elective	
2 or 3*	_____	UCC Science, Technology, and Society Selective	
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Credits	Course number	Course Title	Prerequisites
	Fall 3rd Year		
2	FS 34100	Food Processing I	PHYS, MA, CHM, pre/co: FS 36200
1	FS 34200	Food Processing I Lab	PHYS, MA, CHM, pre/co: FS 34100
1	FS 36100	Food Plant Sanitation	BIOL, CHM
3	FS 36200	Food Microbiology	BIOL 22100, BCHM 30700
2	FS 36300	Food Microbiology Lab	pre/co: FS 36200 and BCHM 30900
3	_____	UCC Humanities Elective	
3*	_____	Elective	
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Credits	Course number	Course Title	Prerequisites
	Spring 3rd Year		
3	FS 45300	Food Chemistry	BCHM 30700
1	FS 45400	Food Chemistry Lab	pre/co: FS 45300
3	FS 46700	Food Analysis	STAT 30100, pre/co: FS 45300
2	FS 46900	Food Analysis Lab	pre/co: FS 46700
1	FS 53000	Food Ingredient Technology	pre/co: FS 45300
3	_____	Written or Oral Communication Selective	
3*	_____	Elective	
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Credits	Course number	Course Title	Prerequisites
	Fall 4th Year		
2	FS 44200	Food Processing II	FS 34100
1	FS 44400	Statistical Process Control	STAT
1	FS 44700	Food Processing II Lab	pre/co: FS 44200
1	FS 48200	Senior Seminar	>75 cr
3	NUTR 31500	Fundamentals of Nutrition	
3	_____	Professional Communication Selective	
3	_____	Humanities or Social Sciences Selective	
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Credits	Course number	Course Title	Prerequisites
	Spring 4th Year		
1	FS 34000	Food Regulations	
1	FS 43500	Sensory Science	STAT 301
3	FS 44300	Food Product Design (Capstone)	FS 245, FS 361, FS 442, FS 467, FS 530
3	_____	Humanities or Social Sciences Selective	
3	_____	Humanities or Social Sciences Selective (30000+)	
4*	_____	Electives	
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The highlighted course is considered critical; timely progress toward the degree depends upon steady progress through each course in the plan of study, but this course, in particular, should be completed by the semester indicated.
Consultation with an advisor may result in an altered plan customized for an individual student.

Official and complete prerequisite lists are in the course catalog; the incomplete listing presented here regards this program and course sequencing.