

**Food Science and Technology, B.S.: 120 units**  
2019-2020 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 1</b>	FST 1000 Orientation and Careers in Food Science and Technology		1	AG 1010 Agriculture & The Modern World (D3)		3	
	FST 1250 Introduction to Food Science and Technology		3	CHM 1210 General Chemistry I (B1)	Prereq: C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, or STA 1200; or C- or better Coreq: CHM 1210L.	3	
	MAT 1200 Calculus for Life Sciences (B4) (Success Marker)	Prereq: MAT 105; MAT 1050; MAT 1052; MDTP Alg $\geq 18$ and MDTP Trig $\geq 6$ ; MDTP Alg $\geq 22$ ; or ALEKS Comp $\geq 61$ .	3	CHM 1210L General Chemistry Laboratory I (B3)	Prereq: C or better in MAT 12, 105, 106, 112, 114, 115, 116, 120, 125, 130, 191, 214, 216, 224, MAT 1050, MAT 1052, MAT 1060, MAT 1140, MAT 1150, MAT 1200, MAT 1250, MAT 1300, MAT 1310, MAT 1910, MAT 2140, MAT 2240, MAT 2250, STA 120, or STA 1200; or C- or better Coreq: CHM 1210.	1	
	BIO 1150 Basic Biology (B2)	or BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2)	3	STA 1300 Biostatistics (B4) (Success Marker)	Prereq: C or better in MAT 12, ESM 12, MAT 1060, MAT 106, MAT 1250, MAT 125, MAT 1910, MAT 191, MAT 1050, MAT 105, STA 1200, or STA 120; or C- or better in MAT 1051.	3	
	BIO 1150L Basic Biology Laboratory (B3)	or BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3)	1	GE Area A1: Oral Communication		3	
	ENG 1103 First Year Composition (A2) (Success Marker)		3	ENG 2105 Written Reasoning (A3)	Prereq: Completion of GE Area A2.	3	
	<b>Total Units</b>		<b>14</b>	<b>Total Units</b>		<b>16</b>	

Year 2	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	PHY 1210 Physics of Motion, Fluids, and Heat (B1)	Prereq: C- or better in MAT 106, MAT 1060, MAT 112, MAT 114, MAT 1140, MAT 1140C, MAT 115, MAT 116 or MAT 1150 . Coreq: PHY 1210L.	3	BIO 2060 Basic Microbiology	Prereq: BIO 123/BIO 123L, BIO 1220/BIO 1220L , BIO 122/BIO 122L/BIO 1220C, BIO 115/BIO 115L/BIO 115A, or BIO 1150/BIO 1150L. Coreq: BIO 2060L.	3	
PHY 1210L Physics of Motion, Fluids, and Heat Laboratory (B3)	Coreq: PHY 1210.	1	BIO 2060L Basic Microbiology Laboratory	Prereq: BIO 123/BIO 123L, BIO 1220/BIO 1220L, BIO 122/BIO 122L/BIO 1220C, BIO 115/BIO 115L/BIO 115A, or BIO 1150/BIO 1150L. Coreq: BIO 2060.	1		
CHM 1220 General Chemistry II (B1)	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220L.	3	CHM 2010 Elements of Organic Chemistry	or CHM 3140 Organic Chemistry	3		
CHM 1220L General Chemistry Laboratory II (B3)	Prereq: C- or better in CHM 1210, CHM 122 or CHM 122B; and C- or better in CHM 1210L, CHM 122L or CHM122LB. Coreq: CHM 1220.	1	CHM 2010L Elements of Organic Chemistry Laboratory	or CHM 3140L Organic Chemistry Laboratory I	1		
NTR 2280 Food and Culture (D3)		3	GE Area E: Lifelong Learning and Self-Development		3		
GE Area D1: U.S. History American Ideals		3	GE Area C1 or GE Area C2	Prereq: Select either C1: Visual and Performing Arts or C2: Literature, Modern Languages, Philosophy and Civilization course	3		
GE Area C1: Visual and Performing Arts		3			0		
<b>Semester Total Units</b>		<b>17</b>	<b>Semester Total Units</b>		<b>14</b>		

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
<b>Year 3</b>	FST 3321 Food Process Engineering	Prereq: C or better in CHM 1220 or CHM 123, CHM 1220L or CHM 123L, PHY 1210 or PHY 121, PHY 1210L or PHY 121L, and MAT 120 or MAT 1200; and C- or better in FST 1250 or FST 125. Coreq: FST 3321L.	3	NTR 3050 Nutrition, Science and Health (B5)	Prereq: GE Areas B1-B4.	3	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	FST 3321L Food Process Engineering Laboratory	Prereq: C or better in CHM 1220 or CHM 123, CHM 1220L or CHM 123L, PHY 1210 or PHY 121, PHY 1210L or PHY 121L, and MAT 120 or MAT 1200; and C- or better in FST 1250 or FST 125. Coreq: FST 3321.	1	FST 3250 Food Safety and Current Issues (B5)		3	
	FST 3220 Food Laws and Regulations	Prereq: C- or better in FST 1250 or FST 125; and C or better in ENG 2105 or ENG 130.	3	Major Electives	Select from Curriculum Sheet	3	
	GE Area D2: U.S. Constitution and California Government		3	BIO 3640 Food Microbiology	Prereq: MIC 201/MIC 201L or BIO 2060/BIO 2060L.	2	
	GE Area C2: Literature, Modern Languages, Philosophy and Civilization		3	BIO 3640L Food Microbiology Laboratory	Prereq: MIC 201/MIC 201L or BIO 2060/BIO 2060L. Coreq: BIO 3640.	1	
	FST 3900 Food Science Colloquium	Prereq: C- in ENG 2105 or ENG 130; C- in FST 1250 or FST 125; C- in FST 3250 or FST 325; C- in CHM 3150, CHM 2010, CHM 201, or CHM 316; C- in CHM 123 or CHM 1220; C- in PHY 1210 or PHY 121; C- in PHY 1210L or PHY 121L; C- in MAT 1200, MAT 1150, MAT 120, o	1	Major Electives	Select from Curriculum Sheet	3	
	<i>Take the Graduation Writing Test</i>						
<b>Semester Total Units</b>		<b>14</b>	<b>Semester Total Units</b>		<b>15</b>		

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	Year 4	FST 4261 Food Chemistry	Prereq: C- in FST 1250, FN 121, or FST 125; C- or better in CHM 2010, CHM 3150, CHM 201, or CHM 316; C- in CHM 2010L, CHM 3150L, CHM 250L, or CHM 317L; C- in CHM 2010 or CHM 3150; and C- in CHM 2010L or CHM 3150L. Coreq: FST 4261L.	3	FST 4300 Principles of Hazard Analysis and Critical Control Point System	Prereq: C- or better in BIO 3640 or MIC 201; C in BIO 3640L or C- in MIC 201L; C in FST 3220 or C- in FST 322; C in FST 3250 or C- in FST 325; C in FST 4170 or C- in FST 417; and C in FST 4170 or C- in FST 417L. Coreq: FST 4300A.	
FST 4261L Food Chemistry Laboratory		Prereq: C- in FST 1250, FN 121, or FST 125; C- CHM 2010, CHM 3150, CHM 201, or CHM 316; C- in CHM 2010L, CHM 3150L, CHM 250L, or CHM 317L; C- in CHM 2010, or CHM 3150; and C- in CHM 2010L or CHM 3150L. Coreq: FST 4261.	1	FST 4300A Principles of Hazard Analysis and Critical Control Point System Activity	Prereq: C- in BIO 3640 or MIC 201; C in BIO 3640L or C- in MIC 201L; C in FST 3220 or C- in FST 322; C in FST 3250 or C- in FST 325; C in FST 4170 or C- in FST 417; and C in FST 4170 or C- in FST 417L. Coreq: FST 4300.	1	
AG 4010 Ethical Issues in Food, Agricultural and Apparel Industries (D4, C3)		Prereq: Junior or Senior Standing; and completion of GE Area A2.	3	FST 4280 Food Analysis	Prereq: C or better in FST 4261 or C- or better in FST 420; C or better in FST 4261 or C- or better in CHM 123; C or better in FST 4261L or C- or better in FST 420L; and C or better in FST 4261L or C- or better in CHM 123L. Coreq: FST 4280L.	3	
GE Area C3: Arts and Humanities Synthesis		or GE Area D4: Social Science Synthesis	3	FST 4280L Food Analysis Laboratory	Prereq: C- or better in FST 4261 or FST 420; C- or better in FST 4261 or CHM 123; C- or better in FST 4261L or FST 420L; and C- or better in FST 4261L or CHM 123L. Coreq: FST 4280.	1	
FST 4170 Unit Operations in Food Processing I		Prereq: C- or better in CHM 2010, CHM 201, CHM 3150, or CHM 316; C- or better in CHM 2010L, CHM 250L, CHM 3150L, or CHM 317L; C- in FST 3321 or C- in FST 332; C- in FST 3321L or C- in FST 332L; C- in BIO 2060 or MIC 201; and C- in BIO 2060L or MIC 201L.	2	FST 4410 Internship in Food Science and Technology	Prereq: C- or better in FST 3220 or FST 390; C or better in FST 3250 or C- or better in FST 390; C- or better in FST 3900 or FST 390; and C- or better in BIO 3640 or FST 390.	1	
Major Electives		Select from Curriculum Sheet	3	Major Electives	Select from Curriculum Sheet	4	
			0	Major Electives	Select from Curriculum Sheet	3	
<i>File an application to graduate</i>							
<b>Semester Total Units</b>			<b>15</b>	<b>Semester Total Units</b>			<b>15</b>
<b>Total Units</b>						<b>120</b>	