

Food Science and Technology, B.S.: 120 units 2020-2021 Academic Year

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 1	FST 1000 Orientation and Careers in Food Science and Technology [F]	Prereq: FST Major.	1	AG 1010 Agriculture & The Modern World (D3) [FSpSu]		3	[] = Term Typically Offered F = Fall Sp = Spring Su = Summer e = even years o = odd years
	FST 1250 Introduction to Food Science and Technology [FSpSu]		3	CHM 1210 General Chemistry I (B1) [FSpSu]	Prereq: SAT Math >= 550; ACT Math >= 23; 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, Coreq: CHM 1210L.	3	
	MAT 1200 Calculus for Life Sciences (B4) [FSpSu] (Success Marker)	Prereq: MAT 105, MAT 1050, MAT 1052, or ALEKS Comp >= 61.	3	CHM 1210L General Chemistry Laboratory I (B3) [FSpSu]	Prereq: SAT Math >= 550; ACT Math >= 23; 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 in CHM 121 and CHM 121L. Coreq: CHM 1210.	1	
	BIO 1150 Basic Biology (B2) [FSp]	or BIO 1210 Foundations of Biology: Energy, Matter, and Information (B2)	3	STA 1300 Biostatistics (B4) [FSp] (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) [FSp]	or BIO 1210L Foundations of Biology: Energy, Matter, and Information Laboratory (B3)	1	GE Area A1: Oral Communication [FSP]		3	
	ENG 1103 First Year Composition (A2) [FSp] (Success Marker)	Prereq: CO Category II.	3	ENG 2105 Written Reasoning (A3) [FSpSu]	Prereq: Completion of GE Area A2.	3	
	Total Units		14	Total Units		16	

	Fall		Units	Spring		Units	Comments
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Year 2	PHY 1210 Physics of Motion, Fluids, and Heat (B1) [FSp]	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 [FSp]	Prereq: BIO 121/BIO 121L, BIO 122/BIO 122L, and BIO 123/BIO 123L; BIO 121/BIO 121L and BIO 122/BIO 122L/BIO 1220C; BIO 121/BIO 121L/BIO 1210B and BIO 1220/BIO 1220L; BIO 1210/BIO 1210L and BIO 1220/BIO 1220L; BIO 115/115L/115A; or BIO 1150/BIO 1150L. Core	3	
	PHY 1210L Physics of Motion, Fluids, and Heat Laboratory (B3) [FSp]	Coreq: PHY 1210.	1	BIO 2060L Basic Microbiology Laboratory [FSp]	Prereq: BIO 121/BIO 121L, BIO 122/BIO 122L, and BIO 123/BIO 123L; BIO 121/BIO 121L and BIO 122/BIO 122L/BIO 1220C; BIO 121/BIO 121L/BIO 1210B and BIO 1220/BIO 1220L; BIO 1210/BIO 1210L and BIO 1220/BIO 1220L; BIO 115/115L/115A; or BIO 1150/BIO 1150L. Core	1	
	CHM 1220 General Chemistry II (B1) [FSpSu]	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 [FSpSu]	or CHM 3140 Organic Chemistry	3	
	CHM 1220L General Chemistry Laboratory II (B3) [FSpSu]	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 [FSpSu]	or CHM 3140L Organic Chemistry Laboratory I	1	
	NTR 2280 Food and Culture (D3) [FSpSu]		3	GE Area E: Lifelong Learning and Self-Development [FSp]		3	
	GE Area D1: U.S. History American Ideals [FSp]		3	GE Area C1 or GE Area C2 [FSp]	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 [FSp]		3			0	
			0			0	
Semester Total Units			17	Semester Total Units		14	

	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
Year 3	FST 3321 Food Process Engineering [FSp]	Prereq: C- or better in CHM 1220 or CHM 123, CHM 1220L or CHM 123L, PHY 1210 or PHY 121, PHY 1210 or PHY 121L, MAT 1200 or MAT 120, and FST 1250 or FST 125. Coreq: FST 3321L.	3	NTR 3050 Nutrition, Science and Health (B5) [FSpSu]	Prereq: Lower division GE requirements in Areas A and B.	3	<i>Graduation Writing Test must be taken before completion of 75 units.</i>
	FST 3321L Food Process Engineering Laboratory [FSp]	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, MAT 1200 or MAT 120, and FST 1250 or FST 125. Coreq: FST 3321.	1	FST 3250 Food Safety and Current Issues (B5) [FSpSu]	Prereq: Lower division GE requirements in Areas A and B.	3	
	FST 3220 Food Laws and Regulations [FSp]	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 [FSp]		3	BIO 3640 Food Microbiology [F]	Prereq: MIC 201/MIC 201L or BIO 2060/BIO 2060L.	2	
	GE Area C2: Literature, Modern Languages, Philosophy and Civilization [FSp]		3	BIO 3640L Food Microbiology Laboratory [FSp]	Prereq: MIC 201/MIC 201L or BIO 2060/BIO 2060L.	1	
	FST 3900 Food Science Colloquium [FSp]	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 1220 or CHM 123; 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>						
Semester Total Units			14	Semester Total Units		15	

Year 4	Fall		Units	Spring		Units	Comments
	Courses	Requirements/Comments		Courses	Requirements/Comments		
	FST 4261 Food Chemistry [F]	Prereq: C- in FST 1250, NTR 1210, FN 121, or FST 125; C- or better in CHM 2010, CHM 3150, CHM 201, or CHM 316; and C- in CHM 2010L, CHM 3150L, CHM 250L, or CHM 317L. Coreq: FST 4261L.	3	FST 4300 Principles of Hazard Analysis and Critical Control Point System [Sp]	Prereq: C- or better in BIO 3640 or MIC 201, BIO 3640L or MIC 201L, FST 3220 or FST 322, FST 3250 or FST 325, and FST 4170 or FST 417. Coreq: FST 4300A.	2	
FST 4261L Food Chemistry Laboratory [F]	Prereq: C- in FST 1250, NTR 1210, FN 121, or FST 125; C- CHM 2010, CHM 3150, CHM 201, or CHM 316; and C- in CHM 2010L, CHM 3150L, CHM 250L, or CHM 317L. Coreq: FST 4261.	1	FST 4300A Principles of Hazard Analysis and Critical Control Point System Activity [Sp]	Prereq: C- in BIO 3640 or MIC 201, BIO 3640L or MIC 201L, FST 3220 or FST 322, FST 3250 or FST 325, FST 4170 or FST 417. Coreq: FST 4300.	1		
AG 4010 Ethical Issues in Food, Agricultural and Apparel Industries (D4, C3) [FSpSu]	Prereq: Junior or Senior Standing; and Lower division GE requirements in Area A, at least two sub-areas in Area C, and at least two sub-areas in Area D.	3	FST 4280 Food Analysis [Sp]	Prereq: C or better in FST 4261 or FST 421 and FST 4261L or FST 420L. Coreq: FST 4280L.	3		
GE Area C3: Arts and Humanities Synthesis [FSp]	or GE Area D4: Social Science Synthesis	3	FST 4280L Food Analysis Laboratory [Sp]	Prereq: C- or better in FST 4261 or FST 420 and FST 4261L or FST 420L. Coreq: FST 4280.	1		
FST 4170 Unit Operations in Food Processing I [F]	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 FST 332; C- or better in FST 3321L or 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 [FSpSu]	Prereq: C- or better in FST 3900 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>							
Semester Total Units		15	Semester Total Units		15		
					Total Units	120	