

Major Required 80-81 units

Major Required courses include food chemistry, food analysis, food microbiology, unit operations in food processing, food engineering, and food laws and regulations.

AG1010 - Agriculture & The Modern World (3) (D3)
 AG4010 - Ethical Issues in Food, Agricultural and Apparel Industries (3) (C3 or D4)

BIO1150 - Basic Biology (3) (B2) *and*
 BIO1150L - Basic Biology Laboratory (1) (B3)

OR
 BIO1210 - Foundations of Biology: Energy, Matter, and Information (3) (B2) *and*
 BIO1210L - Foundations of Biology: Energy, Matter, and Information Laboratory (1) (B3)

BIO2060 - Basic Microbiology (3)
 BIO2060L - Basic Microbiology Laboratory (1)
 BIO3640 - Food Microbiology (2)
 BIO3640L - Food Microbiology Laboratory (1)
 CHM1210 - General Chemistry I (3) (B1)
 CHM1210L - General Chemistry Laboratory I (1) (B3)
 CHM1220 - General Chemistry II (3) (B1)
 CHM1220L - General Chemistry Laboratory II (1) (B3)

CHM2010 - Elements of Organic Chemistry (3) *and*
 CHM2010L - Elements of Organic Chemistry Laboratory (1)

OR
 CHM3140 - Organic Chemistry I (4) *and*
 CHM3140L - Organic Chemistry Laboratory I (1)

ENG1103 - First Year Composition (3) (A2)
 ENG2105 - Written Reasoning (3) (A3)
 FST1000 - Orientation and Careers in Food Science and Technology (1)
 FST1250 - Introduction to Food Science and Technology (3)
 FST3220 - Food Laws and Regulations (3)
 FST3250 - Food Safety and Current Issues (3) (B5)
 FST3321 - Food Process Engineering (3)
 FST3321L - Food Process Engineering Laboratory (1)
 FST3900 - Food Science Colloquium (1)
 FST4170 - Unit Operations in Food Processing I (2)
 FST4261 - Food Chemistry (3)
 FST4261L - Food Chemistry Laboratory (1)
 FST4280 - Food Analysis (3)
 FST4280L - Food Analysis Laboratory (1)
 FST4300 - Principles of Hazard Analysis and Critical Control Point System (2)
 FST4300A - Principles of Hazard Analysis and Critical Control Point System Activity (1)
 FST4410 - Internship in Food Science and Technology (1-4) (1 unit required)
 MAT1200 - Calculus for Life Sciences (3) (B4)
 NTR2280 - Food and Culture (3) (D3)
 NTR3050 - Nutrition, Science and Health (3) (B5)
 PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1)
 PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)
 STA1300 - Biostatistics (3) (B4)

Major Electives 15-16 units

Any combination of courses listed below will satisfy the required 15-16 units. Emphases are listed to provide guidance for helping students to choose courses of interest that best fit your career goals, but there is no requirement for choosing a specific emphasis for fulfilling these units.

Business Emphasis 16 units

FST3180 - Sensory Evaluation of Foods (2)
 FST3180L - Sensory Evaluation of Foods Laboratory (1)
 FST3190 - Food Packaging (1)
 FST3190A - Food Packaging Activity (1)
 FST4290 - Food Product Development (1)
 FST4290L - Food Product Development Laboratory (2)
 3000 or 4000-level courses in Business fields (8)

Culinology® Emphasis 16 units

FST3180 - Sensory Evaluation of Foods (2)
 FST3180L - Sensory Evaluation of Foods Laboratory (1)
 FST4290 - Food Product Development (1)
 FST4290L - Food Product Development Laboratory (2)
 HRT2810 - Professional Cooking (2)
 HRT2810L - Professional Cooking Laboratory (1)
 HRT3250 - Professional Healthy Cooking (2)

HRT3250L - Professional Healthy Cooking Laboratory (1)
 HRT3810 - Professional Cooking II (2)
 HRT3810L - Professional Cooking II Laboratory (1)

Select 1 unit from the following courses:

FST3190 - Food Packaging (1)
 FST3190A - Food Packaging Activity (1)
 FST4420 - Internship in Food Science and Technology (1-4)
 NTR3280L - Food and Culture Laboratory (1)
 HRT2550 - Healthy American Cuisine (3)
 HRT3240 - World Cuisine (2)
 HRT3240L - World Cuisine Laboratory (1)
 HRT4850 - Culinary Product Development and Evaluation (3)
 PLT2220 - Culinary Produce Technology (3)

Pre-Professional Emphasis 15 units

BIO1220 - Foundations of Biology: Evolution, Ecology, and Biodiversity (3)
 BIO1220L - Foundations of Biology: Evolution, Ecology, and Biodiversity Laboratory (1)
 CHM3150 - Organic Chemistry II (3)
 CHM3150L - Organic Chemistry Laboratory II (1)
 CHM3210 - Elements of Biochemistry (3)
 PHY1220 - Physics of Electromagnetism, Circuits, and Light (3)
 PHY1220L - Electromagnetism, Circuits, and Light Laboratory (1)

Science and Technology Emphasis 16 units

CHM3210 - Elements of Biochemistry (3)
 CHM3270L - Biochemistry Laboratory I (1)
 FST3180 - Sensory Evaluation of Foods (2)
 FST3180L - Sensory Evaluation of Foods Laboratory (1)
 FST3190 - Food Packaging (1)
 FST3190A - Food Packaging Activity (1)
 FST4271 - Unit Operations in Food Processing II (2)
 FST4271L - Unit Operations in Food Processing Laboratory (1)
 FST4290 - Food Product Development (1)
 FST4290L - Food Product Development Laboratory (2)
 3000 or 4000-level course in Science fields (1)

General Education Requirements 48 Units

Students should consult the Academic Programs website

<https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml>

for current information regarding this requirement. Unless specific courses are required, please refer to the list of approved courses under General Education Requirements, Areas A through E.

Area A. English Language Communication and Critical Thinking (9 units)

At least 3 units from each sub-area

1. Oral Communication
2. Written Communication
3. Critical Thinking

Area B. Scientific Inquiry and Quantitative Reasoning (12 units)

At least 3 units from B1, B2, B4, and B5 including 1 unit of lab from B1 or B2 to fulfill B3

1. Physical Sciences
2. Life Sciences
3. Laboratory Activity
4. Mathematics/Quantitative Reasoning
5. Science and Technology Synthesis

Area C. Arts and Humanities (12 units)

At least 3 units from each sub-area and 3 additional units from sub-areas 1 and/or 2

1. Visual and Performing Arts
2. Literature, Modern Languages, Philosophy and Civilization
3. Arts and Humanities Synthesis

Area D. Social Sciences (12 units)

At least 3 units from each sub-area

1. U.S. History and American Ideals
2. U.S. Constitution and California Government
3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
4. Social Science Synthesis

Area E. Lifelong Learning and Self-Development (3 units)
Interdisciplinary General Education 21 Units

An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Please refer to the University Catalog General Education Program section for additional information.

How IGE fulfills General Education Requirements:

Year	Completion of IGE Courses	Satisfies GE Requirements
First	IGE 1100, IGE 1200	A2 and C2
Second/Third	IGE 2100, IGE 2200	C1 and C2
	IGE 2300, IGE 2400	D1 and D3
Third/Fourth	IGE 3100	C3 or D4

American Institutions 6 Units

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

American Cultural Perspectives Requirement 3 Units

Refer to the University Catalog General Education Program section for a list of courses that satisfy this requirement. Course may also satisfy major, minor, GE, or unrestricted elective requirements.

Graduation Writing Test

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the semester following completion of 60 units for undergraduates.