

# CAL POLY POMONA

Name: \_\_\_\_\_  
 Plan: Food Science and Technology, B.S.  
 SubPlan/Option: \_\_\_\_\_  
 Min. Units Required: **120 units**

## 2018-2019 University Catalog Degree Curriculum Sheet

Major Required Core	80-81 units	Culinology® Emphasis	16 units	General Education Requirements	48 Units
<p>Core courses include food chemistry, food analysis, food microbiology, unit operations in food processing, food engineering, and food laws and regulations.</p> <p>AG1010 - Agriculture &amp; The Modern World (3) (D3)            AG4010 - Ethical Issues in Food, Agricultural and Apparel Industries (3) (C3 or D4)</p> <p>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)</p> <p>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)</p> <p>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)</p> <p>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)</p>		<p>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)</p> <p>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)</p>		<p>Students should consult the Academic Programs website  <a href="https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml">https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml</a>            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.</p> <p><b>Area A. English Language Communication and Critical Thinking (9 units)</b></p> <ol style="list-style-type: none"> <li>1. Oral Communication</li> <li>2. Written Communication</li> <li>3. Critical Thinking</li> </ol> <p><b>Area B. Scientific Inquiry and Quantitative Reasoning (12 units)</b></p> <ol style="list-style-type: none"> <li>1. Physical Sciences</li> <li>2. Life Sciences</li> <li>3. Laboratory Activity</li> <li>4. Mathematics/Quantitative Reasoning</li> <li>5. Science and Technology Synthesis</li> </ol> <p><b>Area C. Arts and Humanities (12 units)</b></p> <ol style="list-style-type: none"> <li>1. Visual and Performing Arts</li> <li>2a. Philosophy and Civilization</li> <li>2b. Literature and Language Other than English</li> <li>3. Arts and Humanities Synthesis</li> </ol> <p><b>Area D. Social Sciences (12 units)</b></p> <ol style="list-style-type: none"> <li>1. U.S. History and American Ideals</li> <li>2. U.S. Constitution and California Government</li> <li>3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics</li> <li>4. Social Science Synthesis</li> </ol> <p><b>Area E. Lifelong Learning and Self-Development (3 units)</b></p>	
		<p><b>Pre-Professional Emphasis</b></p> <p>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)</p>	15 units		
		<p><b>Science and Technology Emphasis</b></p> <p>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)</p> <p>3000 or 4000-level course in Science fields (1)</p>	16 units		
<p><b>Major Electives</b></p> <p>Select 15-16 units from one of the emphasis areas:            Business, Culinology, Pre-Professional, or Science and Technology.</p>	15-16 units				
<p><b>Business Emphasis</b></p> <p>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)</p> <p>3000 or 4000-level courses in Business fields (8)</p>	16 units				
				<p><b>American Institutions</b></p> <p>Courses that satisfy this requirement may also satisfy GE Area D1 and D2.</p>	6 Units
				<p><b>American Cultural Perspectives Requirement</b></p> <p>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.</p>	3 Units
				<p><b>Graduation Writing Test</b></p> <p>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.</p>	