



**California State Polytechnic University, Pomona  
Degree Curriculum Sheet**

Plan (Major) **FOOD SCIENCE & TECHNOLOGY**

Catalog Year **2011-2012**

Name \_\_\_\_\_

Evaluator \_\_\_\_\_

Subplan/Option \_\_\_\_\_

Minimum Units Required **180**

Student ID \_\_\_\_\_

GWT Satisfied \_\_\_\_\_ Yes \_\_\_\_\_ No

Required Core Courses		
Course		Units
Orientation to College of Agriculture	AG 100	1
Introduction to the Professions	FN 100	1
Introduction to Food Science & Technology	FST 125	4
Food Process Engineering I	FST 232/232L	2/1
Food Laws and Regulations	FST 322	4
Food Safety and Current Issues	FST 325	4
Food Process Engineering II	FST 332/332L	2/1
Unit Operations in Food Processing I	FST 417/417L	3/1
Food Chemistry I	FST 420/420L	3/1
Food Analysis	FST 422/422L	3/1
Principles of HACCP	FST 423/423A	3/1
Food Chemistry II	FST 426/426L	3/1
Unit Operations in Food Processing II	FST 427/427L	3/1
Internship**	FST 441	2
Food Science Colloquium**	FST 390	2
Food Microbiology	MIC 320/320L	3/1
**Denotes Capstone Experience		
<b>Total Units</b>		<b>52</b>

Elective Track Courses		
Course	Units	
<i>Select 30 units from one of the track areas (see reverse side):</i>		
Business	30	
Culinology		
Pre-Professional		
Science and Technology		
<b>Total Units</b>		<b>30</b>

Required Support Courses			
Course			Units
Agriculture in the Modern World (D2)	AG 101		4
Ethical Issues in Food, Agricultural and Apparel Industries (C4 or D4)	AG 401		4
Basic Biology (B2, B3)	BIO 115/115A/115L	3/1/1	
or Foundations of Biology (B2, B3)*	BIO 121/121L	(3/2)	
General Chemistry (B1, B3)	CHM 121/121L	3/1	
General Chemistry (B1, B3)	CHM 122/122L	3/1	
General Chemistry (B1, B3)	CHM 123/123L	3/1	
Elements of Organic Chemistry	CHM 201/250L	3/1	
or Organic Chemistry**	CHM 314/317L	(3/1)	
Elements of Biochemistry	CHM 321/321L	3/1	
Freshman English I (A2)	ENG 104		4
Freshman English II (A3)	ENG 105		4
Foods and Culture (D3)	FN 228		4
Nutrition, Science, and Health (B5)	FN 305		4
Calculus for the Life Sciences (B4)	MAT 120		4
Basic Microbiology	MIC 201/201L	3/1	
College Physics (B1, B3)	PHY 121/121L	3/1	
General Psychology (E)	PSY 201		4
Statistics with Applications (B4)	STA 120		4
*If BIO 121/121L is chosen, BIO 122/122L and BIO 123/123L must be taken as part of Elective Track Courses.			
**If CHM 314/317L is chosen, CHM 315/318L and CHM 316/319L must be taken as part of Elective Track Courses.			
<b>Total Units</b>			<b>69</b>

Unrestricted Electives		
Course	Units	
Unrestricted Electives	0-1	
Select a sufficient number of courses so that the total from "Required Support", "GE", and "Unrestricted Electives" is at least 98 units.		
<b>Total Units</b>		<b>0-1</b>

General Education Requirements		
Area	Units	
<b>Area A Communication &amp; Critical Thinking</b>	<b>12</b>	
1 Oral Communication		
2 Written Communication		
3 Critical Thinking		
<b>Area B Mathematics &amp; Natural Sciences</b>	<b>16</b>	
<i>Select at least one lab course from sub-area 1 or 2.</i>		
1 Physical Science		
2 Biological Science		
3 Laboratory Activity		
4 Math/Quantitative Reasoning		
5 Science & Technology Synthesis		
<b>Area C Humanities</b>	<b>16</b>	
1 Visual and Performing Arts		
2 Philosophy and Civilization		
3 Literature and Foreign Language		
4 Humanities Synthesis		
<b>Area D Social Sciences</b>	<b>20</b>	
1 U.S. History, Constitution, American Ideals		
2 History, Economics and Political Science		
3 Sociology, Anthropology, Ethnic & Gender Studies		
4 Social Science Synthesis		
<b>Area E Lifelong Understanding &amp; Self Development</b>	<b>4</b>	
<b>Total Units</b>		<b>68</b>

American Institutions	Units
Courses that satisfy this requirement may also satisfy G.E. Area D1	8

American Cultural Perspectives Requirement	Units
Refer to catalog for list of courses that satisfy this requirements. Course may also satisfy major, minor, GE, or unrestricted elective requirements.	4

The following required support courses should be taken to satisfy the indicated GE Requirements to achieve the minimum units to degree listed at the top of this sheet.

Course		GE Area
Freshman English I	ENG 104	A2
Freshman English I	ENG 105	A3
General Chemistry	CHM 121/121L	B1, B3
or General Chemistry	CHM 122/122L	(B1, B3)
or General Chemistry	CHM 123/123L	(B1, B3)
or College Physics	PHY 121/121L	(B1, B3)
Basic Biology	BIO 115/115A/115L	B2, B3
or Foundations of Biology	BIO 121/121L	(B2, B3)
Calculus for the Life Sciences	MAT 120	B4
or Statistics with Applications	STA 120	(B4)
Nutrition, Science, and Health	FN 305	B5
Ethnic Issues in Food, Agricultural, Apparel Industries	AG 401	C4 or D4
Agriculture in the Modern World	AG 101	D2
General Psychology	PSY 201	E

The remaining GE requirements may be satisfied by any course approved for that area.

No more than 105 community college quarter units or 36 extension credit quarter units may be applied toward a Bachelor's degree.

A minimum 2.0 cumulative GPA is required in core (including option) courses, Cal Poly Pomona courses, and overall work completed in order to receive a degree in this major.

ID # \_\_\_\_\_

2011-2012

## Food Science and Technology Career Tracks

Select one of the *four* FST Career Tracks listed in the boxes below, in consultation with your advisor.

### **Business Track**

FST 318/318L Sensory Evaluation of Foods - (2/2)  
FST 421/421L Food Product Development - (2/2)

Select **22** units from 300 or 400 level FST/FMAM/TOM or other business courses approved by your academic advisor.

### **Pre-Professional Track**

CHM 315/318L Organic Chemistry - (3/1)  
CHM 316/319L Organic Chemistry - (3/1)  
BIO 122/122L Foundations of Biology: Reproduction & Dev. - (3/2)  
BIO 123/123L Foundations of Biology: Biodiversity - (3/2)  
PHY 122/122L College Physics - (3/1)  
PHY 123/123L College Physics - (3/1)

Select **4** units from AVS/BIO/ZOO courses approved by your academic advisor.

### **Medical, Veterinary, Pharmacy and Dental School Admission Requirements**

This curriculum meets the requirements of many, but not all, schools. The requirements of individual schools may vary and should be determined by the student in consultation with the department advisor within two years of beginning the application process.

### **Culinology Track**

FST 318/318L Sensory Evaluation of Foods - (2/2)  
FST 421/421L Food Product Development - (2/2)  
HRT 225 Sanitation Practices in the Hospitality Industry - (1)  
HRT 281/281L Professional Cooking I - (2/2)  
HRT 324/324L World Cuisine - (2/2)  
HRT 325/325L Professional Healthy Cooking - (2/2)  
HRT 381/381L Professional Cooking II - (2/2)

Select **5** units from the following:

FN 121/121L Introduction to Foods - (2/2)  
FN 328/328L Culture and Meal Patterns - (2/2)  
FST 442 Internship in FST - (2-4)  
HRT 255 Healthy American Cuisine - (4)  
HRT 485 Culinary Product Development & Evaluation - (4)  
PLT 222 Culinary Produce Technology - (4)

### **Science and Technology Track**

FST 318/318L Sensory Evaluation of Foods - (2/2)  
FST 421/421L Food Product Development - (2/2)

Select **22** units from 300 or 400 level AVS/BIO/CHM/FN/FST/MAT/MIC/PHY/PLT or STA courses approved by your academic advisor.

Student Name (Print): \_\_\_\_\_

Student Signature: \_\_\_\_\_

Date: \_\_\_\_\_

Advisor Name (Print): \_\_\_\_\_

Advisor Signature: \_\_\_\_\_

Date: \_\_\_\_\_