



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

Plan (Major) FOOD SCIENCE & TECHNOLOGY
Track Science & Technology Track

Catalog Year 2008-2009
Minimum Units Required 180

Name _____
Student ID _____

Evaluator _____
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 Safety and Current Issues	FST 325	4
Food Laws and Regulations	FST 322	4
Food Process Engineering I	FST 232/232L	2/1
Food Process Engineering II	FST 332/332L	2/1
Food Chemistry I	FST 420/420L	3/1
Food Chemistry II	FST 426/426L	3/1
Food Analysis	FST 422/422L	3/1
Unit Operations in Food Processing I	FST 417/417L	2/1
Unit Operations in Food Processing II	FST 427/427L	2/1
Principles of HACCP	FST 423/423A	3/1
Internship**	FST 441	2
Food Science Colloquium**	FST 464	2
**Denotes Capstone Experience		
Total Units		46

Required Track Courses		
Course		Units
Food Packaging	FST 319/319A	3/1
Food Product Development	FST 421/421L	2/2
Sensory Evaluation of Foods	FST 318/318L	2/2
Total Units		12

Elective Track Courses		
Course		Units
<i>Select 20 units from the following courses:</i>		
Post Harvest Physiology	PLT 351/351L	3/1
Meat Science & Industry	AVS 327/327L	3/1
Meat Processing & Technology	AVS 427/427L	3/1
Horizons in Biotechnology	BIO 230	1
Genetics	BIO 303	4
Cell & Molecular Biology	BIO 310	4
Plant Product in Food Science	BOT 310	4
Quantitative Analysis	CHM 221/221L	2/2
Fundamentals of Physical Chem	CHM 301/301L	3/1
Organic Chemistry & Lab	CHM 315/318L	3/1
Organic Chemistry & Lab	CHM 316/319L	3/1
Spectroscopic Methods	CHM 342/342L	2/2
Separation Methods	CHM 343/343L	2/2
Introduction to Foods	FN 121/121L	2/2
Introduction to Research Methods	FN 263	4
Nutrition of the Life Cycle	FN 335	4
see next column		

Required Support Courses			
Course			Units
Freshman English I (A2)	ENG 104		4
Freshman English II (A3)	ENG 105		4
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
College Physics (B1, B3)	PHY 121/121L		3/1
Basic Biology (B2, B3)	BIO 115/115L		3/2
Calculus for the Life Sciences (B4)	MAT 120		4
Statistics with Applications (B4)	STA 120		4
Nutrition, Science and Helath (B5)	FN 305		4
Ethical Issues in Food, Agricultural and Apparel Industries (C4 or D4)	AG 401		4
Agriculture in the Modern World (D2)	AG 101		4
General Psychology (E)	PSY 201		4
Elements of Organic Chemistry or Organic Chemistry***	CHM 201/250L		3/1
	CHM 314/317L		(3/1)
Elements of Biochemistry	CHM 321/321L		3/1
Basic Microbiology	MIC 201/201L		3/2
Food Microbiology	MIC 320/320L		2/2
***If CHM 314/317L is chosen, CHM 315/318L and CHM 316/319L must be taken as part of Elective Track Units			
Total Units			70

Elective Track Courses (continued)			
Course			Units
Nutrient Drug Interactions	FN 343		2
Community Nutrition	FN 346/346L		2/1
Nutrition	FN 235		4
Advanced Nutrient Metabolism I	FN 433		4
Food Systems in Developing Nations I	FST 424		4
Food Systems in Developing Nations II	FST 425		4
Trigonometry	MAT 106		4
Microbial Structures & Functions	MIC 300/300L		3/2
General Epidemiology	MIC 330		4
Medical Bacteriology	MIC 410/410L		3/2
Immunology/Serology	MIC 415/415L		3/2
Medical Mycology	MIC 425/425L		3/2
General Virology	MIC 430/430L		3/2
Energy & Society	PHY 301		4
Human Physiology	ZOO 235/236L		3/1
Internship**	FST 442		1-4
**Denotes Capstone Experience			
Select a sufficient number of courses so that the total from "GE" and "Elective Track" is at least 89 units.			
Total Units			20

General Education Requirements		
Area		Units
Area A Communication & Critical Thinking		12
1 Oral Communication		
2 Written Communication		
3 Critical Thinking		
Area B Mathematics & Natural Sciences		16
<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		
Area C Humanities		16
1 Fine and Performing Arts		
2 Philosophy and Civilization		
3 Literature and Foreign Language		
4 Humanities Synthesis		
Area D Social Sciences		20
1 U.S. History, Constitution, American Ideals		
2 History, Economics and Political Science		
3 Sociology, Anthropology, Ethnic & Gender Studies		
4 Social Science Synthesis		
Area E Lifelong Understanding & Self Development		4
Total Units		68

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 II	ENG 105		A3
General Chemistry	CHM 121/121L		B1, B3
Basic Biology	BIO 115/115L		B2, B3
Statistics with Applications	STA 120		B4
Nutrition, Science and Health	FN 305		B5
Agriculture in the Modern World	AG 101		D2
Ethical Issues in Food, Agricultural and Apparel Industries	AG 401		C4 or D4
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.