



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

Plan (Major) **FOOD SCIENCE & TECHNOLOGY**
Subplan/Option **Pre-Professional Track**

Catalog Year **2008-2009** Name _____
Minimum Units Required **180** 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	3/1
Unit Operations in Food Processing I	FST 417/417L	2/1
Unit Operations in Food Processing II	FST 427/427L	2/1
Food Analysis	FST 422/422L	3/1
Principles of HACCP	FST 423/423A	3/1
Internship**	FST 441	2
Food Science Colloquium**	FST 464	2
Total Units		46

**Denotes Capstone Experience

Required Track Courses		
Course		Units
Organic Chemistry	CHM 315/318L	3/1
Organic Chemistry	CHM 316/319L	3/1
College Physics/Lab	PHY 122/122L	3/1
College Physics/Lab	PHY 123/123L	3/1
Foundations of Biology	BIO 122/122L	3/2
Foundations of Biology	BIO 123/123L	3/2
Total Units		26

Elective Track Courses		
Course		Units
<i>Select 6 units from the following courses:</i>		
Human Anatomy	ZOO 234/234L	2/2
Human Physiology	ZOO 235/235L	3/1
Human Embryology	ZOO 415/415L	3/1
Histology	ZOO 422/422L	3/2
Mammalogy	ZOO 430/430L	2/2
Comparative Anatomy of Vertebrates	ZOO 451/451L	3/2
Trigonometry	MAT 106	4
Scientific Communications I (req. for Pre-Med)	BIO 190	1
Developmental Biology	BIO 320/320L	3/2
Neuroscience	BIO 424	4
Cellular Physiology	BIO 428/428L	3/2
Concepts of Molecular Biology	BIO 450	4
Molecular Biology Techniques	BIO 451/451L	2/2
College Physics/Lab (req. for Pre-Med)	PHY 123/123L	3/1
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)	CHEM 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
Foundations of Biology (B2, B3)	BIO 121/121L		3/2
Calculus for the Life Sciences (B4)	MAT 120		4
Statistics with Applications (B4)	STA 120		4
Industries (C4 or D4)	AG 401		4
Agriculture in the Modern World (D2)	AG 101		4
General Psychology (E)	PSY 201		4
Nutrition, Science and Health	FN 305		4
Ethical Issues in Food, Agricultural and Apparel	AG 401		4
Organic Chemistry***	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
***CHM 315/318L and CHM 316/319L must be taken as part of Elective Track Units)			
Total Units			70

Elective Track Courses			
Course			Units
Anatomy and Physiology of Domestic Animals	AVS 350/350L		5
Genetics	BIO 303		4
Cell and Molecular Biology	BIO 330		4
Foundations of Biology	BIO 122/122L		3/2
Foundations of Biology	BIO 123/123L		3/2
Intro. to Invertebrate Zoology	ZOO 237/L		3/2
Intro. to Invertebrate Zoology	ZOO 238/L		3/2
**Denotes Capstone Experience			
Total Units			6

Medical, Veterinary, Pharmacy, & Dental School Admission Requirements

This curriculum meets the requirements of most, 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.

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	CHEM 121/121L	B1, B3
Foundations of Biology	BIO 121/121L	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.