



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

Plan (Major) **FOODS AND NUTRITION, B.S.**
Subplan/Option **Nutrition Science**

Catalog Year **2017-2018**
Minimum Units Required **180**

Name _____
Student ID _____

| Required Core Courses |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Required of all students. A 2.0 cumulative GPA is required in core courses including subplan (option) courses for the major in order to receive a degree in the major. AG 100 - Orientation to the College of Agriculture (1) FN 100 - Introduction to the Profession (1) FN 235 - Nutrition (4) FN 235L - Nutrition Lab (1) FN 263 - Introduction of Research Methods (4) |
| <i>There will be a requirement for graduation - an assessment activity.</i> |
| Total Units 11 |

| Required Subplan/Option Courses |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| FN 121/121L - Introduction to Foods (2/2) FN 335 - Nutrition of the Life Cycle (4) FN 345/345L - Nutrition Education (3/1) FST 125 - Introduction to Food Science and Technology (4) FST 321/321L - Experimental Food Science (3/1) FST 325 - Food Safety and Current Issues (4) |
| Total Units 24 |

| Electives Subplan/Option Courses |
|----------------------------------------------------------------------------------------------------------------------------------------------------|
| Select 42 units from only one emphasis area in consultation with your advisor: Nutrition and Health Pre-Professional Animal Nutrition |
| See Elective Subplan/option Courses on the back of the Curriculum Sheet. |
| Total Units 42 |

| Required Support Courses |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| BIO 235/235L - Human Physiology (4/1) CHM 122 - General Chemistry (3) and CHM 122L - General Chemistry Laboratory (1) CHM 123 - General Chemistry (3) and CHM 123L - General Chemistry Laboratory (1) CHM 201 - Elements of Organic Chemistry (3) and CHM 250L - Elements of Organic Chemistry Laboratory (1) or CHM 314 - Organic Chemistry (3) and CHM 317L - Organic Chemistry Laboratory (1) |
| Continue next column |

| Required Support Courses Con't. |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| MAT 106 - Trigonometry (4) MAT 120 - Calculus for the Life Sciences (4) MIC 201/201L - Basic Microbiology (3/1) PHY 121 - College Physics (3) and PHY 121L - College Physics Laboratory (1) <i>The following major support courses should be used to satisfy the indicated GE requirement:</i> If these courses are not used to satisfy GE, the total units to degree may be more than 180 units. AG 101 - Agriculture and the Modern World (4) (D2) AG 401 - Ethical Issues in Food, Agricultural, and Apparel Industries (4) (C4 or D4) BIO 115/115A/115L - Basic Biology (3/1/1) (B2, B3) or BIO 121/121L - Foundations of Biology: Energy and Matter - Cycles and Flows (3/2) (B2, B3) CHM 121 - General Chemistry (3) (B1) and CHM 121L - General Chemistry Laboratory (1) (B3) ENG 130 - Freshman English II (4) (A3) ENG 107 - Stretch Composition III (4) (A2) or ENG 109 - Advanced Stretch Composition II (4) (A2) or ENG 110 - First-Year Composition (4) (A2) PSY 201 - General Psychology (4) (E) STA 120 - Statistics with Applications (4) (B4) |
| Total Units 66 |

| Unrestricted Electives |
|--------------------------------------------------------------------------------------------------------------------------------------------|
| Select a sufficient number of courses so that the total from "Required Support", "GE", and "Unrestricted Electives" is at least 103 units. |
| Total Units 0-1 |

| 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. |

| Interdisciplinary General Education |
|--------------------------------------------------------------------------------------|
| See Interdisciplinary General Education Courses on the back of the Curriculum Sheet. |
| Total Units 32 |

| General Education Requirements |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Area A Communication & Critical Thinking (12 units) 1. Oral Communication 2. Written Communication 3. Critical Thinking |
| Area B Mathematics & Natural Sciences (16 units) 1. Physical Science 2. Biological Science 3. Laboratory Activity 4. Math/Quantitative Reasoning 5. Science & Technology Synthesis |
| Area C Humanities (16 units) 1. Visual and Performing Arts 2. Philosophy and Civilization 3. Literature and Foreign Language 4. Humanities Synthesis |
| Area D Social Sciences (20 units) 1. U.S. History, Constitution, American Ideals a. United States History b. Introduction to American Government 2. History, Economics and Political Science 3. Sociology, Anthropology, Ethnic & Gender Studies 4. Social Science Synthesis |
| Area E Lifelong Understanding & Self Development (4 units) |
| Total Units 68 |

| American Institutions | 8 |
|-------------------------------------------------------------------|----------|
| Courses that satisfy this requirement may also satisfy GE Area D1 | |

| American Cultural Perspectives Requirement | 4 |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|
| 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. | |

All persons who receive undergraduate degrees from Cal Poly Pomona must pass the Graduation Writing Test (GWT). The test must be taken by the quarter following completion of 120 units for undergraduates.

Select 42 units from only one emphasis area in consultation with your advisor:

Nutrition and Health Emphasis

AVS 211 - Drugs and Society (4)
BIO 302 - Biology of Cancer (4)
BIO 309 - Biology of the Brain (4)
BIO 311 - Sexually Transmitted Diseases: Current Issues (4)
BIO 328 - Biology of Human Aging (4)
COM 327 - Intercultural Communication (4)
FN 203 - Health, Nutrition and the Integrated Being (4)
FN 228 - Food and Culture (4)
FN 235A - Nutrition Activity (1)
FN 400 - Special Study for Upper Division Students (1-2)
FN 441 - Internship in Foods and Nutrition (1-4)
FN 442 - Internship in Foods and Nutrition (1-4)
FN 445 - Agriculture, Nutrition and International Development (4)
FST 424 - Food Systems in Developing Nations I (4)
FST 425 - Food Systems in Developing Nations II (4)
HRT 255 - Healthy American Cuisine (4)
IA 445 - Agriculture, Nutrition and International Development (4)
KIN 301 - Foundations of Exercise Science (4)
KIN 303/303L - Physiology of Exercise (3/1)
KIN 365 - Science of Physical Aging (4)
KIN 370 - Stress Management for Healthy Living (4)
KIN 380 - Consumer Health (4)
KIN 403/403L - Physiology of Exercise II (3/1)
KIN 408 - Drug Education (4)
KIN 455 - Sports Medicine (4)
KIN 456 - Exercise Metabolism and Weight Control (3)
PSY 325 - Multicultural Psychology (4)
PSY 326 - Health Psychology (4)

Pre-Professional Emphasis

BIO 122/122L - Foundations of Biology: Reproduction and Development (3/2)
BIO 123/123L - Foundations of Biology: Biodiversity (3/2)
BIO 302 - Biology of Cancer (4)
BIO 303 - Genetics (4)
BIO 310 - Cell and Molecular Biology (4)
BIO 421 - Advanced Genetics (4)
BIO 424 - Neuroscience (4)
BIO 428/428L - Cellular Physiology (4/1)
CHM 221/221L - Quantitative Analysis (2/2)

CHM 315 - Organic Chemistry (3) and
CHM 318L - Organic Chemistry Laboratory (1)

CHM 316 - Organic Chemistry (3) and
CHM 319L - Organic Chemistry Laboratory (1)

CHM 321/321L - Elements of Biochemistry (3/1)
or
CHM 327 - Biochemistry (3) and
CHM 327L - Biochemistry Laboratory (1)

CHM 328 - Biochemistry (3) and
CHM 328L - Biochemistry Laboratory (1)

CHM 329 - Biochemistry (3) and
CHM 329L - Biochemistry Laboratory (1)

CHM 331/331L - Clinical Chemistry (2/2)

CHM 342/342L - Spectroscopic Methods (2/2) or
CHM 343/343L - Separation Methods (2/2) or
CHM 344/344L - Electroanalytical Methods (2/2)

CHM 450 - Bioanalytical Chemistry (4)
CHM 453 - Recombinant DNA Biochemistry (3)
FN 433 - Advanced Nutrient Metabolism I (4)
FN 434 - Advanced Nutrient Metabolism II (4)
FN 435 - Advanced Nutrient Metabolism III (4)
KIN 303/303L - Physiology of Exercise (3/1)
KIN 455 - Sports Medicine (4)

PHY 122 - College Physics (3) and
PHY 122L - College Physics Laboratory (1)

PHY 123 - College Physics (3) and
PHY 123L - College Physics Laboratory (1)

Animal Nutrition Emphasis

AVS 101 - Fundamentals of Animal Nutrition (4)
AVS 125/125L - Equine Management Science (3/1)
AVS 303/303L - Applied Animal Feeding (3/1)
AVS 327/327L - Meat Science and Industry (3/1)
AVS 328/328A - Seafood and Poultry Processing Technology (3/1)
AVS 355 - Equine Nutrition (3)
AVS 402 - Animal Nutrition (3)
AVS 403 - Ruminant Nutrition (3)
AVS 424L - Nutritive Analysis (2)
AVS 427/427L - Meat Processing and Technology (3/1)
BIO 122/122L - Foundations of Biology: Reproduction and Development (3/2)
BIO 123/123L - Foundations of Biology: Biodiversity (3/2)

CHM 315 - Organic Chemistry (3) and
CHM 318L - Organic Chemistry Laboratory (1)

CHM 316 - Organic Chemistry (3) and
CHM 319L - Organic Chemistry Laboratory (1)

CHM 321/321L - Elements of Biochemistry (3/1)
or
CHM 327 - Biochemistry (3) and
CHM 327L - Biochemistry Laboratory (1)

CHM 328 - Biochemistry (3) and
CHM 328L - Biochemistry Laboratory (1)

CHM 329 - Biochemistry (3) and
CHM 329L - Biochemistry Laboratory (1)

CHM 331/331L - Clinical Chemistry (2/2)

CHM 342/342L - Spectroscopic Methods (2/2) or
CHM 343/343L - Separation Methods (2/2) or
CHM 344/344L - Electroanalytical Methods (2/2)

CHM 450 - Bioanalytical Chemistry (4)
CHM 453 - Recombinant DNA Biochemistry (3)
FN 433 - Advanced Nutrient Metabolism I (4)
FN 434 - Advanced Nutrient Metabolism II (4)
FN 435 - Advanced Nutrient Metabolism III (4)

Interdisciplinary General Education

An alternate pattern for partial fulfillment of GE Areas A, C, D, and E available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. Students must be exempt from or score at least 147 on the EPT to qualify for IGE. 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 |
|-------------|----------------------------------|----------------------------------------|
| Freshman | IGE 120, IGE 121, IGE 122 | A2 as well as any 2 courses from C1-C3 |
| Sophomore | IGE 220, IGE 221, IGE 222 | D1 (8 units) and D3 |
| Junior | IGE 223, IGE 224 | D2 and Area E |

Total Units 32