

Name: _____
 Plan: Nutrition, B.S.
 SubPlan/Option: Nutrition Science
 Min. Units Required: **120 units**

Major Required Core 71 units

AG4010 - Ethical Issues in Food, Agricultural and Apparel Industries (3) (C3 or D4)
 BIO1150 - Basic Biology (3) (B2)
 BIO1150L - Basic Biology Laboratory (1) (B3)
 BIO2060 - Basic Microbiology (3)
 BIO2060L - Basic Microbiology Laboratory (1)
 BIO2350 - Human Physiology (3)
 BIO2350L - Human Physiology Laboratory (1)
 BIO3000 - Genetics and Human Issues (3) (B5)
 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)
 CHM2010 - Elements of Organic Chemistry (3)
 COM2204 - Advocacy and Argument (3) (A1)
 ENG1103 - First Year Composition (3) (A2)
 ENG2105 - Written Reasoning (3) (A3)
 FST3210 - Experimental Food Science (2)
 FST3210L - Experimental Food Science Laboratory (1)
 FST3250 - Food Safety and Current Issues (3)
 NTR1000 - Introduction to the Nutrition Professions (1)
 NTR1210 - Introduction to Foods (2)
 NTR1210L - Introduction to Foods Laboratory (1)
 NTR2280 - Food and Culture (3) (D3)
 NTR2350 - Nutrition (3)
 NTR2350L - Nutrition Laboratory (1)
 NTR3130 - Introduction to Nutrition Research (3)
 NTR3350 - Nutrition of the Life Cycle (3)

NTR3450 - Nutrition Education and Counseling (3) or
 NTR3450S - Nutrition Education and Counseling Service Learning (3)

NTR3450A - Nutrition Education and Counseling Activity (1) or
 NTR3450AS - Nutrition Education and Counseling Activity Service Learning (1)

PSY2201 - Introduction to Psychology (3) (E)
 STA1200 - Statistics with Applications (3) (B4)

There will be a requirement for graduation - an assessment activity.

Subplan/Option Required Core 13 units

AG1010 - Agriculture & The Modern World (3) (D3)
 MAT1060 - Trigonometry (3) (B4)
 MAT1200 - Calculus for Life Sciences (3) (B4)
 PHY1210 - Physics of Motion, Fluids, and Heat (3) (B1)
 PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1) (B3)

Emphasis Electives 18 Units

Students should select one of the following three Emphases. Requires 18 units from selected emphasis.

Animal Nutrition Emphasis:

Required Courses

AVS2101 - Fundamentals of Animal Nutrition (3)
 AVS4473 - Clinical Nutrition (3)
 AVS3350 - Anatomy and Physiology (3)
 AVS3350L - Anatomy and Physiology Laboratory (1)

Elective Courses

Require minimum 8 units from these electives.
 CHM3140 - Organic Chemistry I (4)
 CHM3140L - Organic Chemistry Laboratory I (1)
 CHM3150 - Organic Chemistry II (3)
 CHM3150L - Organic Chemistry Laboratory II (1)

CHM3210 - Elements of Biochemistry (3)
 OR
 CHM3270 - Biochemistry I (3) and
 CHM3270L - Biochemistry Laboratory I (1)

CHM3280 - Biochemistry II (3)
 CHM3280L - Biochemistry Laboratory II (1)
 NTR3930 - Advanced Nutrient Metabolism I (3)
 NTR3940 - Advanced Nutrient Metabolism II (3)
 NTR4370 - Nutritional Genomics (3)
 NTR4380 - Evaluation of Complementary Medicine (3)

Nutrition and Health Emphasis:

AVS2211 - Drugs and Society (3) (E)
 BIO3030 - Sexually Transmitted Diseases and Safer Sex (3) (B5)
 BIO3090 - Biology of the Brain (3) (B5)
 BIO4390 - Cancer Cell Biology (3)
 COM3328 - Diversity and Communication (3)
 FST4240 - Food Systems in Developing Nations I (3)
 FST4250 - Food Systems in Developing Nations II (3)
 HRT2550 - Healthy American Cuisine (3) (E)
 KIN3010 - Foundations of Exercise Science (3) (B5)
 KIN3030 - Physiology of Exercise (3)
 KIN3030L - Physiology of Exercise Laboratory (1)
 KIN3650 - Dimensions of the Aging Process (3)
 KIN4080 - Drugs and Society (3)
 KIN4530 - Sports Medicine (3)
 KIN4540 - Exercise Bioenergetics and Metabolism (3)
 NTR2030 - Health, Nutrition and the Integrated Being (3) (E)
 NTR4410 - Internship in Food and Nutrition (1-3)
 NTR4420 - Internship in Food and Nutrition (1-3)
 NTR4450 - Nutrition and International Development (3)
 PSY3325 - Multicultural Psychology (3) (D4)
 PSY3326 - Health Psychology (3) (B5 or D4)

Pre-Professional Emphasis:

BIO4390 - Cancer Cell Biology (3)
 BIO2400 - Genetics (3)
 BIO3220 - Cell and Molecular Biology (3)
 BIO4040 - Advanced Genetics (3)
 BIO4190 - Neuroscience I: Cell and Molecular Processes (3)
 BIO4450 - Physiology I: Cells (3)
 BIO4450L - Physiology I: Cells Laboratory (1)
 CHM2210 - Quantitative Analysis (2)
 CHM2210L - Quantitative Analysis Laboratory (2)
 CHM3140 - Organic Chemistry I (4)
 CHM3140L - Organic Chemistry Laboratory I (1)
 CHM3150 - Organic Chemistry II (3)
 CHM3150L - Organic Chemistry Laboratory II (1)

CHM3210 - Elements of Biochemistry (3)
 OR
 CHM3270 - Biochemistry I (3) and
 CHM3270L - Biochemistry Laboratory I (1)

CHM3280 - Biochemistry II (3)
 CHM3280L - Biochemistry Laboratory II (1)
 CHM3310 - Clinical Chemistry (2)
 CHM3310L - Clinical Chemistry Laboratory (1)

CHM3420 - Spectroscopic Methods (1) and
 CHM3420L - Spectroscopic Methods Laboratory (1)
 OR
 CHM3430 - Separation Methods (1) and
 CHM3430L - Separation Methods Laboratory (1)

CHM4500 - Bioanalytical Chemistry (3)
 CHM4530 - Informational Biomolecules and Recombinant DNA (3)
 KIN3010 - Foundations of Exercise Science (3)
 NTR3930 - Advanced Nutrient Metabolism I (3)
 NTR3940 - Advanced Nutrient Metabolism II (3)
 NTR4370 - Nutritional Genomics (3)
 NTR4380 - Evaluation of Complementary Medicine (3)
 NTR4450 - Nutrition and International Development (3)
 PHY1210 - Physics of Motion, Fluids, and Heat (3)
 PHY1210L - Physics of Motion, Fluids, and Heat Laboratory (1)

General Education Requirements 48 Units

Students should consult the Academic Programs website
<https://www.cpp.edu/~academic-programs/general-education-course-listings.shtml>
 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.

Area A. English Language Communication and Critical Thinking (9 units)

1. Oral Communication
2. Written Communication
3. Critical Thinking

Area B. Scientific Inquiry and Quantitative Reasoning (12 units)

1. Physical Sciences
2. Life Sciences
3. Laboratory Activity
4. Mathematics/Quantitative Reasoning
5. Science and Technology Synthesis

Area C. Arts and Humanities (12 units)

1. Visual and Performing Arts
- 2a. Philosophy and Civilization
- 2b. Literature and Language Other than English
3. Arts and Humanities Synthesis

Area D. Social Sciences (12 units)

1. U.S. History and American Ideals
2. U.S. Constitution and California Government
3. Social Sciences: Principles, Methodologies, Value Systems, and Ethics
4. Social Science Synthesis

Area E. Lifelong Learning and Self-Development (3 units)

Interdisciplinary General Education 21 Units

An alternate pattern for partial fulfillment of GE Areas A, C, and D available for students is the Interdisciplinary General Education (IGE) program. Students should see an advisor for specific GE coursework required by their major. 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 1100, IGE 1200	A2 and C2b
Sophomore	IGE 2100, IGE 2200	C1 and C2a
Junior	IGE 2300, IGE 2400	D1 and D3
Senior	IGE 3100	C3 or D4

American Institutions 6 Units

Courses that satisfy this requirement may also satisfy GE Area D1 and D2.

American Cultural Perspectives Requirement 3 Units

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.

Graduation Writing Test

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.