CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

ACADEMIC SENATE

ACADEMIC PROGRAMS COMMITTEE REPORT TO THE ACADEMIC SENATE

AP-049-156

OPTION IN NUTRITION SCIENCE FOR SEMESTERS

Academic Programs Committee Date: 08/22/2016

Executive Committee

Received and Forwarded Date: 08/24/2016

Academic Senate Date: 08/31/2016

First Reading 09/28/2016

Second Reading

<u>BACKGROUND</u>: The Department of Human Nutrition and Food Science has put forward a referral for an Option in Nutrition Science for semesters. This is a revised program.

RESOURCES CONSULTED:

Deans
Associate Deans
Department Chairs
All Faculty

DISCUSSION:

Before reaching the Academic Programs Committee, this program was reviewed by the College Curriculum Committee in the College of Agriculture as well as the Dean of Agriculture and the Office of Academic Programs. All concerns raised at those levels were addressed. The Academic Programs Committee then conducted campus-wide consultation, as well as its own review of the program. No concerns were raised.

RECOMMENDATION:

The Academic Programs Committee recommends approval of the semester program: Option in Nutrition Science.

Status	active							
Hierarchy Entities	Human Nutrition	Human Nutrition and Food Science						
Approval Process Name	I. Program - Q2S	I. Program - Q2S Existing Program/Option/Minor						
Current Step	Office of Academ	ic Programs						
Originator	Bonny Burns-Whi	itmore						
Created	12/09/2015 11:01	PM						
Launched	12/09/2015 11:12	2PM						
Form								
General Catalog Information								
Department	Human Nutrition	and Food Science						
Conversion Category:	Revisioned							
Proposal Type:	Option							
Describe or list changes			on Science (NS) and Dietetic options with a shared core. NS had no mission nd both options can now be evaluated at the core classes. Classes were					
Describe of fist changes	revisioned and co Committee on No							
	Committee on No	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art	Nutrition, B.S N	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.)	Nutrition, B.S N	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet	Nutrition, B.S N	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet	Nutrition, B.S No See attached	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet Roadmap Two-Year Course	Committee on No Nutrition, B.S N See attached See attached See attached See attached	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet Roadmap Two-Year Course Offering	Nutrition, B.S Notes attached See attached See attached See attached See attached See attached See attached	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet Roadmap Two-Year Course Offering Assessment Plan	Nutrition, B.S Notes attached See attached See attached See attached See attached See attached See attached	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet Roadmap Two-Year Course Offering Assessment Plan Select Program	Nutrition, B.S Notes attached See attached See attached See attached See attached See attached See attached	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					
Semester Program Name (e.g. Biology, B.S., Art History, B.A.) Program Description Curriculum Sheet Roadmap Two-Year Course Offering Assessment Plan Select Program Prospective Curriculum Steps	Nutrition, B.S Notes attached See attached See attached See attached See attached See attached See attached	ov 02.	minimum of 120 units. Major Program was approved by College Curriculum					

Program Proposal for Re-Vision Programs

BS in Nutrition, with Options in Nutrition Science

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Nutrition Major- Nutrition Science Option Curriculum Sheet-11/01/15-rev 11/13/15-rev 05/04/16 SEMESTER CONVERSION

	Required Major Core	74
	Required Option Core	10
	Double-counted	(33)
	GE	48
	Emphasis Electives	<u>21</u>
	TOTAL DEGREE	120
	Required Major Core	SEM
AG 1010	Agriculture and Modern World (D2)(MC)	3
AG 4010	Ethical Issues (D4)(MC)	3
BIO 1150	Basic Biology (B2) or BIO 1210(MC)	3
BIO 1150L	Basic Biology Lab (B3) or BIO 1210L(MC)	1
BIO 2350	Human Physiology(MC)	3
BIO 2350L	Human Physiology Lab(MC)	1
BIO 2060	Basic Microbiology(MC)	3
BIO 2060L	Basic Microbiology Lab(MC)	1
BIO 3000	Genetics (B5) (MC)	3
CHM 1210	General Chemistry (B1) (MC)	3
CHM 1210L	General Chemistry Lab (B3) (MC)	1
CHM 1220	General Chemistry (MC)	3
CHM 1220L	General Chemistry Lab(MC)	1
CHM 2010	Elements of Organic Chemistry or CHM 3170(MC)	3
COM 2204	Advocacy and Argument (A1) (MC)	3
ENG 1103	Freshman English 1 (A2) (MC)	3
ENG 2105	Written Reasoning (A3) (MC)	3
FST 3210	Experimental Food Science(MC)	2
FST 3210L	Experimental Food Science Lab(MC)	1
FST 3250	Food Safety and Current Issues(MC)	3
NUTR 1000	Intro to Professions(MC)	1
NUTR 1210	Intro to Foods(MC)	2
NUTR 1210L	Intro to Foods Lab(MC)	1
NUTR 2280	Food and Culture (D3) (MC)	3
NUTR 2350	Nutrition(MC)	3
NUTR 2350L	Nutrition Lab(MC)	1
NUTR 3130	Intro to Research(MC)	3
NUTR 3350	Nutrition of the Life Cycle(MC)	3
NUTR 3450	Nutrition Education and Counseling(MC)	3
NUTR 3450A	Nutrition Education and Counseling Act(MC)	1
PSY 2201	Introduction to Psychology (E) (MC)	3

STA 1200	Statistics with Apps (B4) (MC)	3
	Required Option Core	
MAT 1060	Trigonometry(OC)	3
MAT 1200	Calculus for the Life Sciences(OC)	3
PHY 1210	College Physics(OC)	3
PHY 1210L	College Physics Lab(OC)	1
*Emphasis Electi	ves	
	select one of the three emphases:	
Requires 21 units	s from selected emphasis	
*Pre-Professiona	ıl	
BIO 4420	Biology of Cancer	3
BIO 2400	Genetics	3
BIO 3220	Cell, Molecular & Developmental Biology	3
BIO 4040	Advanced Genetics BIO 421	3
BIO 4240	Neuroscience BIO 424	3
BIO 4280/L	Cellular Physiology BIO 4280/4280L	3/1
CHM 2210/L	Quantitative Analysis	3/1
CHM 3150/L	Organic Chemistry	3/1
CHM 3160/L	Organic Chemistry	3/1
CHM 3210/L	Elements of Biochemistry	3/1
CHM 3270/L	or Biochemistry/Laboratory	3/1
CHM 3280/L	Biochemistry and Lab	3/1
CHM 3310/L	Clinical Chemistry	3/1
CHM 3420/L	Spectroscopic Methods	3/1
CHM 3430/L	or Separation Methods	3/1
CHM 4500	Bio-analytical Chemistry	3
CHM 4530	Recombinant DNA Biochemistry	3
KIN 3030/L	Exercise Science	3/1
KIN 4550	Sports Medicine	3
NUTR 3930	Advanced Nutrient Metabolism I (3)	3
NUTR 3940	Advanced Nutrient Metabolism II (3)	3
NUTR 4370	Nutritional Genomics (requires NUTR 3930 & 3940)	3
NUTR 4380	Evaluation of Complementary Medicine (req NUTR 3930 & 3940)	3
NUTR 4450	Agriculture, Nutrition and International Development	3
PHY 1220/L	College Physics	3/1
*Nutrition and H	ealth	
AVS 2211	Drugs and Society	3
BIO 3020	Biology of Cancer	3
BIO 3090	Biology of the Brain	3

BIO 3030	Sexually Transmitted Diseases: Current Issues	3
BIO 3280	The Biology of Human Aging	3
COM 3327	Intercultural Communication	3
FST 4240	Food Systems in Developing Nations I	3
FST 4250	Food Systems in Developing Nations II	3
HRT 2550	Healthy American Cuisine	3
KIN 3010	Foundations of Exercise Science	3
KIN 3030/3030L	Physiology of Exercise	3/1
KIN 3650	Science of Physical Aging	3
KIN 3700	Stress Management for Healthy Living	3
KIN 3800	Consumer Health	3
KIN 3030/3030L	Physiology of Exercise	3/1
KIN 4080	Drug Education	3
KIN 4550	Sports Medicine	3
KIN 4650	Exercise Metabolism and Weight Control	3
	Health, Nutrition & the Integrated Being (3) if GE-cannot be used	_
NUTR 2030	here	3
NUTR 4410/4420	Internship in Foods and Nutrition (1-3)	1-3
NUTR/IA 4450	Agriculture, Nutrition and International Health	3 3
PSY 3325	Multicultural Psychology	
PSY 3326	Health Psychology	3
*Animal Nutrition		
Required classes		
AVS 2101	Fundamentals of Animal Nutrition (3)	3
AVS 3305	Animal Diseases (3)	3
AVS 4473	Clinical Nutrition (3)	3
AVS 3350	Anatomy and Physiology of Domestic Animals	3
		Total 12
Require minimum	8 units from these electives	
CHM 3150/L	Organic Chemistry L (3/1)	3/1
CHM 3160/L	Organic Chemistry (3/1)	3/1
CHM 3210	Elements of Biochemistry (3)	3
CHM 3270/L	or Biochemistry/Laboratory (3/1)	3/1
CHM 3280/L	Biochemistry (3/1)	3/1
NUTR 3930	Advanced Nutrient Metabolism I (3)	3
NUTR 3940	Advanced Nutrient Metabolism II (3)	3
NUTR 4370	Nutritional Genomics (requires NUTR 3930&40)	3
NUTR 4380	Evaluation of Complementary Medicine (req NUTR 3930&40)	3
	Ontion Cara - OC	
	Option Core = OC	

AP-049-156, Option in Nutrition Science for Semesters

Major Core = MC GEs are named according to A, B, C, D, E designations Emphasis Elective areas = * **Nutrition Major: Nutrition Science Option**

Curriculum Years: 2018-2020

Your department has developed this road plan, taking into account prerequisites and schedule restrictions. You should pay attention to these concerns when deviating from this plan, however there are many variations that still lead to graduation in four years. Please see the NUTR courses offered each quarter in Blackboard. Sometimes it is necessary to offer a class on a different quarter.

	Fall	Units	Spring	Units	
	ENG 1103 (A2) *	3	CHM 1220/L	3/1	
	NUTR 2350/L	3/1	ENG 2105* (A3)	3	
⊣	NUTR 1000	1	NUTR 3130	3	Supplement Semester to take
Year	CHM 1210/1210L*(B1, B2)	3/1	BIO 1150/L* (B2, B3)	3/1	GE/Support/ courses
>	STAT 1200*(B4)	3			GE and support core, as well as elective
	Total Units	15	Total Units	14	units to meet requirement of 21 units
			Total Units for Year 1	29	
	Fall Units		Spring	Units	
	BIO 2350/L	3/1	CHM 2010	3	
	CHM 1230/L	3/1	BIO 2060/L	3/1	
	GE D (1)	3	AG 1010* (D2)	3	
_	BIO 3000*	3	PSY 2010* (E)	3	Supplement Semester to take
ar 2	NUTR 1210/L	2/1	Emphasis electives	2	GE/Support/ courses
Year					GE and support core, as well as elective
					units to meet requirement of 21 units
	Total Units	17	Total Units	15	
			Total Units for Year 2	32	

AP-049-156, Option in Nutrition Science for Semesters

	Fall	Units	Spring	Units	
	NUTR 3350	3	MAT 1200	3	Supplement Semester to take
	MAT 1060 3		FST 3250	3	GE/Support/ courses
	NUTR 2280 (D3)	3	Emphasis electives	3	GE and support core As well as elective units to meet
<u>-</u> 3	NUTR 3450/L	2/1	FST 3210/L	2/1	
Year	GE C (1)	3	Emphasis electives	3	requirement of 21 units
	Total Units	15	Total Units	15	
			Total Units for Year 3	30	
	Fall	Units	Spring	Units	
	Emphasis electives	3	Emphasis electives	3	
	COM 2040* (A1)	3	Emphasis electives	3	
	Emphasis electives	3	AG 4010 (D4)*	3	Supplement Semester to take
	PHY 1210/L	3/1	NUTR 3280L	1	GE/Support/ courses
ar 4	GE C (2)	3	GE C (3)	3	GE and support core
Year					As well as elective units to meet
					requirement of 21 units
	File an application				
	for graduation				
	Total Units	16	Total Units	13	
			Total Units for the year 4	29	

NUTR Major Semester Courses- 2018-2019

Subject and Catalog	Course Name	Schedule
No.	Course Warne	Scriedule
NUTR 1000	Introduction to the Nutrition Professions (1)	FS
NUTR 1210/1210L	Introduction to Foods (2/1)	FS
NUTR 2030	Health, Nutrition and the Integrated Being (3)	FSU
NUTR 2050 (new)	Personal and Consumer Nutrition	FS
NUTR 2280	Food and Culture (3)	FSU
NUTR 2350	Nutrition (3)	FSU
NUTR 2350L	Nutrition Lab (1)	FSU
NUTR 3050	Nutrition, Science and Health (3)	FSU
NUTR 3130	Introduction of Nutrition Research Methods (3)	FS
NUTR 3280L	Culture and Meal Patterns Lab (1)	FS
NUTR 3280A*	Culture and Meal Patterns in Hispanics Activity(1)	F
NUTR 3350	Nutrition of the Life Cycle (3)	FSU
NUTR 3350A*	Nutrition of the Life Cycle Spanish Activity (1)	F
NUTR 3450/3450A	Nutrition Education and Counseling (2/1)	F
NUTR 3450AS*	Nutrition Education Activity Service-Learning (1)	S
NUTR 3670/3670L	Institutional Food Service I (2/1)	F
NUTR 3680/3680L	Institutional Food Service II (2/1)	S
NUTR 3930	Advanced Nutrient Metabolism 1 (3)	FS
NUTR 3940	Advanced Nutrient Metabolism 2 (3)	S
NUTR 4260	Foodservice Administration (2)	F
NUTR 4310	Dietetic Internship Exploration (1)	F
NUTR 4370	Nutritional Genomics (3)	N
NUTR 4380	Evaluation of Complementary Medicine (3)	N
NUTR 4430/A e1	Medical Nutrition Therapy 1 (3/1)	F
NUTR 4440A*	Medical Nutrition Therapy 2 for the Hispanic Population Activity (1)	S
NUTR 4440 e1	Medical Nutrition Therapy 2 (3)	S
NUTR 4460S/4460AS	Community Nutrition (2/1)	FS
NUTR 4410/4420	Internship in Foods and Nutrition (1-3)	N
NUTR 4450	Agriculture, Nutrition and International Health (3)	N

NUTR Major Semester Courses- 2019-2020

Subject and Catalog		
No.	Course Name	Schedule
NUTR 1000	Introduction to the Nutrition Professions (1)	FS
NUTR 1210/1210L	Introduction to Foods (2/1)	FS
NUTR 2030	Health, Nutrition and the Integrated Being (3)	FSU
NUTR 2050 (new)	Personal and Consumer Nutrition	FS
NUTR 2280	Food and Culture (3)	FSU
NUTR 2350	Nutrition (3)	FSU
NUTR 2350L	Nutrition Lab (1)	FSU
NUTR 3050	Nutrition, Science and Health (3)	FSU
NUTR 3130	Introduction of Nutrition Research Methods (3)	FS
NUTR 3280L	Culture and Meal Patterns Lab (1)	FS
NUTR 3280A*	Culture and Meal Patterns in Hispanics Activity(1)	F
NUTR 3350	Nutrition of the Life Cycle (3)	FSU
NUTR 3350A*	Nutrition of the Life Cycle Spanish Activity (1)	F
NUTR 3450/3450A	Nutrition Education and Counseling (2/1)	F
NUTR 3450AS*	Nutrition Education Activity Service-Learning (1)	S
NUTR 3670/3670L	Institutional Food Service I (2/1)	F
NUTR 3680/3680L	Institutional Food Service II (2/1)	S
NUTR 3930	Advanced Nutrient Metabolism 1 (3)	FS
NUTR 3940	Advanced Nutrient Metabolism 2 (3)	FS
NUTR 4260	Foodservice Administration (2)	F
NUTR 4310	Dietetic Internship Exploration (1)	F
NUTR 4370	Nutritional Genomics (3)	N
NUTR 4380	Evaluation of Complementary Medicine (3)	N
NUTR 4430/A e1	Medical Nutrition Therapy 1 (3/1)	F
NUTR 4440A*	Medical Nutrition Therapy 2 for the Hispanic	S
NOTK 4440A	Population Activity (1)	3
NUTR 4440 e1	Medical Nutrition Therapy 2 (3)	S
NUTR 4460S/4460AS	Community Nutrition (2/1)	FS
NUTR 4410/4420	Internship in Foods and Nutrition (1-3)	N
NUTR 4450	Agriculture, Nutrition and International Health (3)	N

Nutrition Major-Nutrition Science 10/09/15

Mission: To provide a high quality education that educates and prepares our diverse students so that they can promote healthy nutrition and food practices that enhance human and animal health through teaching, research, classes and opportunities that support the Human Nutrition and Food Science, College of Agriculture and Cal Poly Pomona missions.

Program Goals:

- Goal 1: Prepare competent graduates capable of successful entry into graduate programs (Preprofessional and Animal Nutrition)
- Goal 2: Prepare graduates for entry into food and nutrition-related careers
- Goal 3: Recruit, retain and graduate a diverse population of undergraduate nutrition science students with the social and cultural understanding required to help promote healthy nutrition and food practices.

Program Objectives:

In order to secure and maintain accreditation for the Didactic Programs in Dietetics program, these Nutrition Science option Student Learning Objectives will not include the food service and medically-related competencies (Foodservice/Medical Nutrition Therapy) than the requirements for Accreditation Council for Education in Nutrition and Dietetics (ACEND) requirements.

Section 1: Scientific and Evidence Base of Practice: integration of scientific information and research into practice

- 1.1 Students demonstrate how to locate, interpret, evaluate and use professional literature.
- 1.2 Students use current information technologies.

Section 2: Professional Practice Expectations: beliefs, values, attitudes and behaviors for the nutrition professional

- 2.1 Students demonstrate effective professional oral and written communication.
- 2.2 Students are able to demonstrate assertiveness, advocacy and negotiation skills.
- 2.3 Students are able to demonstrate counseling techniques.
- 2.4 Students are able to locate, understand and apply established guidelines.
- 2.5 Students are able to identify and describe the roles of others.

Section 3: The physical and biological science foundation of the nutrition profession must be evident in the curriculum.

- 6.1 Describe the mechanism of action of essential nutrients in health promotion and disease prevention.
- 6.2 Describe the mechanism of action of bioactive non-nutrients in health promotion and disease prevention.
- 6.3 Determine nutrient needs across the lifespan.
- 6.4 Integrate knowledge of the use of nutrients at the molecular, cellular and organ level.
- 6.5 Integrate genetic, physiologic and biochemical mechanisms by which food and nutrients promote optimal health.
- 6.6 Understand and demonstrate the scientific method and the application of research methodologies.
- 6.7 Interpret basic statistics used in nutrition and medical research.

AP-049-156, Option in Nutrition Science for Semesters

Nutrition Science Option: Section 1: Scientific and Evidence Base of Practice: integration of scientific information and research into practice

	SLO # 1.1 Students demonstrate how to locate,	SLO # 1.2 Students use current
D	interpret, evaluate and use professional	information technologies.
Program goals	literature.	
	Х	X
The program prepares graduates for entry-level nutrition		
careers and/or admittance to nutrition related postgraduate		
training programs.		
training programs.		
	<u></u>	<u> </u>
	X	X
2. Prepare graduates for entry into food and nutrition-related		
careers		
	X	X
	^	^
3. Recruit, retain and graduate a diverse population of		
undergraduate nutrition science students with the social and		
cultural understanding required to help promote healthy		
nutrition and food practices.		

AP-049-156, Option in Nutrition Science for Semesters
Nutrition Science Option: Section 2: Professional Practice Expectations: beliefs, values, attitudes and behaviors for the nutrition professional

Program Goals	demonstrate effective professional oral and	SLO # 2.2 Students are able to demonstrate assertiveness, advocacy and negotiation skills.	SLO # 2.3 Students are able to demonstrate counseling techniques.	SLO # 2.4 Students are able to locate, understand and apply established nutrition guidelines.	SLO # 2.5 Students are able to identify and describe the roles of nutrition and medical professionals.
1. The program prepares	X	X	X	х	Х
graduates for entry-level					
nutrition careers and/or					
admittance to nutrition					
related postgraduate training					
programs.					
	х	х	х	X	Х
2. Prepare graduates for					
entry into food and nutrition-					
related careers					
3. Recruit, retain and	X	X	X	X	X
graduate a diverse group of					
undergraduate nutrition					
science students with social					
and cultural understanding					
required to help promote					
healthy nutrition and food					
practices.					

Nutrition Science Option: Section 3. The physical and biological science foundation of the dietetics profession must be evident in the curriculum. Course content must include organic chemistry, <u>biochemistry</u>, <u>physiology</u>, <u>genetics</u>, microbiology, <u>statistics</u>, <u>nutrient metabolism</u>, <u>and nutrition across the lifespan</u>.

	SLO # 6.1	SLO # 6.2	SLO # 6.3	SLO # 6.4	SLO # 6.5	SLO # 6.6	SLO # 6.7
	Describe the	Describe the	Determine	Integrate	Integrate genetic,	Understand and	Interpret basic
	mechanism of	mechanism of	nutrient	knowledge of	physiological and	demonstrate the	statistics used
	action of essential	action of bioactive	needs	the use of	biochemical	scientific method	in nutrition and
Program Goals	nutrients in health	non- nutrients in	across the	nutrients at the	mechanisms by	and the application	medical
rogram coals	promotion and	health promotion	lifespan.	molecular,	which food and	of research	research.
	disease prevention.	and disease		cellular and	nutrients promote	methodologies.	
		prevention.		organ level	optimal health.		
1. The program	X	Х	X	X	X	X	Х
prepares graduates for							
entry-level nutrition							
careers and/or							
admittance to nutrition							
related postgraduate							
training programs.							
2. Prepare graduates	X	X	Х	Х	Х	Х	Х
for entry into food and							
nutrition-related							
careers							
3. Recruit, retain and	Х	Х	Х	Х	Х	Х	Х
graduate, diverse pop.							
of under-grad Nutr Sci							
students with social &							
cultural under-standing							
req. to help promote							
healthy nutrition and							
food practices.							
tood practices.							

	Assessment Tool (Based o	on ACEND)	
NUTR Course	SLO, Link to class and Quality Indicators	Assessment method	Instructor Responsible/ Assessment Results
NUTR 1000	#1.2: Students are able to use current information technologies to locate and apply evidence based guidelines and protocols. (I) 100% of the students will upload a professional portfolio to Blackboard (BB) with 80% accuracy	Submission of portfolio to Blackboard (BB)	
	# 2.1: Students demonstrate effective professional oral and written communication. (I) Students will participate in in-class oral presentation and submit 1-professional portfolio at the end of the academic quarter	Roster of attendance for oral presentation 100% of students will submit a professional portfolio at the end of the quarter Portfolio will be graded on a rubric totaling 75 points	
	#2.5: Students are able to identify and describe the roles of others.(I) Students will be able to identify and describe the roles of others by writing 7 summaries/reflective statements about guest speakers from nutrition and food science fields	100% of students will turn in their professional portfolio with summaries of course guest speakers. Portfolio will be graded on a rubric totaling 75 points	
NUTR 1210/L	# 4.4: Students apply safety principles. (I). Students will utilize food safety principles such as hand washing and proper cleaning techniques with 90% accuracy	Rubric for hand washing and cleaning for both instructor and peer evaluation	
	#5.3: Students will demonstrate knowledge of techniques of food preparation and application to the development, modification and evaluation(I) Students will prepare recipes using basic techniques, and learn the structure and function of key foods that comprise the recipe with 70% accuracy. Students will also perform experiments such as substituting different types of fat and flours in pastries, breads, and quick breads with 90% accuracy. Students will evaluate all finished products using basic sensory methods.	Instructor observation Sensory evaluation of application Rubric for recipe evaluation	
NUTR 2280	# 2.1: Students demonstrate effective professional oral and written	Oral presentations will be measured on a	

communication. (P) Students will rubric scale of 1-10 by	
Lirocoarch a divorce population and Lithe instructor and by	
research a diverse population and the instructor and by	
present an in-class oral presentation two the class	
written reports on a cultural and diet of Written reports will be	
the researched population graded using a rubric	
template provided to	
students at the	
beginning of the	
academic quarter	
# 3.2: Students apply knowledge of the Students will complete	
role of environment, food and lifestyle 15 bi-weekly	
choices. (I, P) Through course lectures, assignments analyzing	
text, articles and assigned readings the role of	
students will gain and in-depth environment, food and	
·	
understanding of the role of lifestyles of assigned	
environment, food and lifestyle of diverse populations	
diverse populations as demonstrated with 70% accuracy or	
through 15-weekly class assignments higher	
JTR 2350 #1.1: Students demonstrate how to Submission of	
locate, interpret, evaluate and use assignment to	
professional literature. (I). instructor	
Students will go to the MyPlate.gov	
website, input their 5 day (or 3 day) diet	
and exercise record, interpret the	
MyPlate comparisons correctly make	
recommendations for excessive and	
insufficient nutrient intakes in an	
assignment with 70% or more accuracy.	
#1.2 Students use current information Submission of	
technologies (P). Students will go to the assignment to	
MyPlate.gov website, input their 5 day instructor	
(or 3 day) diet and exercise record,	
interpret the MyPlate comparisons	
correctly make recommendations for	
excessive and insufficient nutrient	
intakes in an assignment with 70% or	
more accuracy. #2.4: Students are able to locate, Embedded exam	
understand and apply established question	
guidelines (I, P) All students will be able	
to locate and understand the established	
guidelines for the Code of Ethics in	
Dietetics (<u>www.eatright.org</u>) and Position	
Papers with 80% accuracy	
#3.1: Students use the nutrition care Embedded exam	
process to make decisions questions	
(I). Students will describe the nutrition	
care process with 70% accuracy on their	
mid-term exam, and 80% accuracy on	
their final exam	

	Т	
# 3.2: Students apply knowledge of the	Embedded exam	
role of environment, food and lifestyle	questions	
choices.		
(I). Students will be able to discuss the		
role of environment, food and lifestyle		
choices on the following chronic		
diseases: Cardiovascular disease and type		
2 Diabetes with 70% accuracy		
# 4.5: Students develop outcome	Embedded exam	
measures, use informatics principles and	questions	
technology to collect and analyze data	questions	
(I). Dietetic students will be able to use		
informatics principles to analyze data		
relating to individuals and organizations		
with 70% accuracy	5 1 11 1	
# 4.6: Students explain the impact of a	Embedded exam	
public policy on dietetics practice.	question	
(I). Students are able to explain an		
impact of public policies (i.e. Healthy		
People, DRIs, and AND Position Papers)		
on dietetics practice with 70% accuracy		
# 6.1: Describe the mechanism of action	Essay exam on midterm	
of essential nutrients in health	regarding essential	
promotion and disease prevention	nutrients and health	
(I, P). Students will be able to, with 70%	promotion. Filling in	
accuracy describe the role of essential	chart on final exam for	
nutrients in health promotion	vitamins and minerals-	
(ii) students will be able to, with 70%	function in the body,	
accuracy, describe the role of essential	name of deficiency and	
nutrients in disease and deficiency	deficiency symptoms.	
prevention	., .,	
# 6.2: Describe the mechanism of action	Embedded essay exam	
of bioactive non-nutrients in health	questions	
promotion and disease prevention (I). (i)	4.55.51.5	
Students will be able to, with 70%		
accuracy describe the role of bio-active		
non-nutrients (phytochemicals) in health		
promotion		
(ii) Students will be able to, with 70%		
accuracy, describe the role of bio-active		
non-nutrients in disease prevention	Finds add ad average	
# 6.3: Determine nutrient needs across	Embedded exam	
the lifespan. (I). Students will be able to,	questions	
with 70% accuracy describe the key		
nutrient(s) needs in infants, during		
lactation, adult, and older adults		
# 6.4: Integrate knowledge of the use of	Quizzes and embedded	
nutrients at the molecular, cellular and	exam questions	
organ level (I, P). Students will be able to,		
with 70% accuracy describe the process		
of digestion, absorption and basic		
· · · · · · · · · · · · · · · · · · ·	1	

	transport of foods/nutrients in the		
	human		
NUTR	#1.1 Students demonstrate how to	Completion,	
2350L	locate, interpret, evaluate and use	submission, and	
	professional literature. I). Students will	grading of assignment	
	go to the ESHA Food Processor software,		
	input their 3 day (or 5 day) diet and		
	exercise record, interpret the actual and		
	DRI comparisons correctly, and make recommendations for excessive and		
	insufficient nutrient intakes in an		
	assignment with 70% or more accuracy.		
	KRD 2.1 Students demonstrate effective	Grade on assignment	
	professional oral and written	Grade on assignment	
	communication. I). 70% of the students		
	will score \geq 80% on the nutritional		
	analyses assignments.		
	KRD 3.1 Students use the nutrition care	Grade on assignment	
	process to make decisions. I). 70% of the		
	students will score > 80% on diet		
	assessments (case studies) of a person		
	with Heart Disease and Diabetes, as well		
	as proposed recommendations to modify		
	diet and lifestyle.		
	KRD 3.2 Students apply knowledge of the	Rubric-graded case	
	role of environment, food and lifestyle	studies	
	choices. (I,P). 70% of the students will		
	score ≥ 80% on diet assessments (case		
	studies) of a person with Heart Disease		
	and Diabetes, as well as proposed		
	recommendations for diet and lifestyle		
	•		
	modifications. 70% of the students will		
	score > 80% on their respective Food		
	Record Analysis and make appropriate		
	suggestions for diet and lifestyle		
	modifications		
	KRD 4.5 Students develop outcome	Completion,	
	measures, use informatics principles and	submission, and	
	technology to collect and analyze data.	grading of assignment	
	I).100% of the students will use	0. 24mg of 433iginnent	
	computer technology and the ESHA		
	program (latest version) to analyze diets		
	and suggest diet and lifestyle		
	modifications.		
	KRD 5.3 Students will demonstrate	Completion,	
	knowledge of techniques of food	submission, and	
	preparation and application to the	grading of assignment	
	development, modification and		
	evaluation of recipes and menus. I).		
	100% of the students will analyze recipes		

	and menus and suggest modifications to meet nutrient requirements.								
NUTR 3130	#1.1 Students demonstrate how to locate, interpret, evaluate and use professional literature. (I,P). (i) Students will choose a peer-reviewed article from	Submission of article to instructor Submission of							
	PubMed, AJCN, or J of Nutr in a topic of their interest (locate). (ii) Students use this article to diagram the study design, determine study justification, list outcome measurements, describe 2	assignment to instructor							
	study results, study limitations and the objectives/aims of the study with 70% accuracy (interpret and evaluate). (iii)	Embedded exam essay question							
	Students will be able to describe how to locate peer-reviewed literature with 80% accuracy. (iv) All students then present a poster presentation on the article to the class (use professional literature)	Presentation of poster/peer evaluation and instructor feedback							
	#1.2 Students are able to use current information technologies to locate and apply evidence based guidelines and protocols. (I, P). (i) Students use computers to access the Academy of	Rubric for assignments							
	Nutrition and Dietetics Evidenced Based Library website as a source for determining the strength of the evidence for certain practices with 70% accuracy. (ii) Students visit the clinicaltrails.gov								
	website to determine the clinical trial phase of certain treatments with 70% accuracy								
	# 2.1: Students demonstrate effective professional oral and written communication (I). (i) Students critically evaluate a research study with 70%	Rubric for critical evaluation of a research study							
	accuracy (written).(ii) All students present a poster present-ation on the article to the class (oral)	Design and presentation of a poster							
	# 2.4: Students are able to locate, understand and apply established guidelines. (I,P). (i) All students access the American Dietetic Association Code of Ethics and Position Statements	Rubric for the assignment							
	website as a source for determining the strength of the evidence or position stances for certain practices with 70% accuracy.(ii) All students take the Collaborative Institutional Training Initiative (CITI) workshop and test	Certification statement from CITI that student has passed with an overall score of >80%							

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		Annalista mala	
	preparation and application to the	traditional and	
	development, modification and	therapeutically	
	evaluation of recipes and menus. (P)	modified meals of	
	Students will prepare two 7-day	diverse cultures;	
	culturally appropriate menus which they	students will prepare a	
	will modify to meet both the Therapeutic	group power-point	
	Lifestyle Change Diet (TLC) and the DASH	presentation describing	
	Diet Guidelines	the meal, culture, and	
		preparation techniques	
		with a 70% accuracy or	
		higher	
NUTR 3350	#2.4: Students are able to locate,	Embedded exam	
	understand and apply established	questions and cases	
	guidelines. (P). 80% of Students will		
	correctly recite and apply (70% accuracy)		
	ADA, AAP, NIH and NCEP and other		
	evidence based guidelines for pregnancy		
	weight gain, infant feeding, prevention of		
	childhood overweight, and prevention of		
	cardiovascular disease		
	#3.1: Students use the nutrition care	Embedded exam	
	process to make decisions (P). 80% of	questions	
	students will accurately (70%) use the		
	nutrition care process to recommend		
	pregnancy weight gain, infant-feeding		
	decisions, treat childhood overweight,		
	meet elderly nutrition needs.		
	#3.2: Students apply knowledge of the	Embedded exam	
	role of environment, food and lifestyle	question; case studies	
	choices (P). 80% of students will		
	accurately (70%) identify and modulate		
	the key risk factors for infertility,		
	premature birth, low and very low birth		
	weight, failure to thrive, childhood		
	overweight, type 2 diabetes, obesity and		
	cardiovascular disease.		
	#4.6: Students explain the impact of a	Assignment or	
	public policy on dietetics practice.	Embedded essay	
	(P). All students will accurately describe	question	
	the impact of the WIC and School lunch		
	programs and Meals on wheels and other		
	congregate meal programs on health		
	status of target groups.		
	#6.1: Describe the mechanism of action	Embedded exam	•
	of essential nutrients in health	question	
	promotion and disease prevention (P,		
	M). 80% of students will accurately (70%)		
	describe how the DRIs meet pregnancy,		
	lactation, infant growth, adolescence and		
	elderly needs and prevent deficiencies.		

	#6.3: Determine nutrient needs across	Embedded exam	
	the lifespan. (P,M). 80% of students will	question	
	accurately (70%): 1) recommend key DRIs		
	for pre-pregnancy, pregnancy, lactation;		
	2) describe the factors that affect the DRI		
	adjustments across the lifespan; 3)		
	describe the physiological changes in		
	aging that alter the DRIs		
	#6.4: Integrate knowledge of the use of	Embedded exam	
	nutrients at the molecular, cellular and	questions	
	organ level (P, M). 80% of students will		
	accurately describe the process of		
	placental nutrient transport, nutrient		
	utilization by the fetus, mammary tissue.		
	# 6.5: Integrate genetic, physiologic and	Embedded exam	
	biochemical mechanisms by which food	questions	
	and nutrients promote optimal health.		
	(P,M). 80% of students will accurately		
	(70%): 1) identify the beneficial nutrients		
	in human milk for infant health; 2)		
	describe the mechanisms of action of		
	each nutrient on infant metabolism and		
	growth and prevent of disease; 3)		
	describe the hypothalamus pituitary		
	gonadal axis in providing nutrition		
	support for embryos; 4) describe the		
	regulation of lactation; 4) describe the		
	effect of sex hormones on adolescent		
	male and female growth and sexual		
	maturation.		
NUTR	# 1.1 Students demonstrate how to	Embedded exam	
3450/A	locate, interpret, evaluate and use	questions	
	professional literature (I,P). i. Students		
	will describe with 70% accuracy 4		
	behavior change models/theories and		
	relate at least one of the 4 to the practice	In-class presentations,	
	of nutrition education with 70%	students write up a	
	accuracy. (P). ii. Students can present a	report on the	
	nutrition lesson in class using at least one	presentation.	
	concept from a behavior change model		
	correctly and identify which concept they		
	used. (P). iii. Students will identify three		
	concepts within the ADA Code of Ethics		
	as relate to the RD with 70% accuracy		
	(P). vi. Students will identify 80% of		
	errors of Conduct that violate ADA Code		
	of Ethics in a Case study with 70%		
	accuracy		
	#2.1: Students demonstrate effective	Rubric for lesson plan	
	professional oral and written	and presentation	
	communication. (P). All students will	מווע אופשכוונמנוטוו	
	develop a nutrition education lesson plan		
	develop a nutrition education lesson plan		

and conduct a lesson in front of the class	
with a 70% passing rate. (M). Each	
student will conduct a counseling session	
with a mock patient achieving at least a	
70% grade (M). All students will write a	
report on the counseling session with	
70% accuracy	
# 2.2: Students are able to demonstrate	Rubric for counseling
assertiveness, advocacy and negotiation	session
skills.(M). All students will conduct a	
counseling session with a mock patient	
achieving at least a 70% grade	
# 2.3: Students are able to demonstrate	Rubric: Counseling
counseling techniques. (I, P). Student will	session rubric
demonstrate ability to conduct nutrition	
assessment during a mock counseling	Counseling written
session achieving at least a 70% grade.	report rubric
(M). ii. Each student will conduct a	
counseling session with a mock patient	
achieving at least a 70% grade	
# 2.4: Students are able to locate,	Rubric for counseling
understand and apply established	session
guidelines (P). Each student will conduct	
a counseling session with a mock patient	
achieving at least a 70% grade	
# 3.1: Students use the nutrition care	
process to make decisions. (P)	Rubric for counseling
Each student will conduct a counseling	session
session with a mock patient achieving at	
least a 70% grade. (P). Each student will	Embedded exam
describe the nutrition care process with	questions
70% accuracy on their mid-term exam	
# 3.2: Students apply knowledge of the	Embedded exam
role of environment, food and lifestyle	questions, Rubric for
choices. (P). i. Students will understand	counseling session
the role of environment, food and life	
style on eating habits and delivery of	
nutrition education as demonstrated by	
knowledge of the theories of behavior	
change application to nutrition education	
questions on an exam with 70% accuracy.	
(P). ii. Each student will conduct a	
counseling session with a mock patient	
achieving at least a 70% grade	
# 3.3: Students develop an educational	Rubric for lesson plan
session or program/educational strategy	and presentation
for target populations. (P). All students	
will develop a plan and conduct a lesson	
in front of the class with a 70% passing	
rate	
# 4.7: Students explain the impact of	Embedded exam
health care policy, administration,	question

	T	1						
	different health care delivery systems							
	and current reimbursement policies (P).							
	Students will identify and describe the							
	effects of health care delivery systems							
	and reimbursement policy on dietetics							
	counseling with 70% accuracy							
NUTR 3930	#6.1: Describe the mechanism of action	Embedded exam						
&	of essential nutrients in health	questions						
NUTR 3940	promotion and disease prevention.							
	(M). 80% of students will accurately							
	(70%) describe (1) how DRIs are							
	established; 2) mechanism of action of							
	the DRIS at preventing deficiency							
	symptoms; 3) mechanism of action for							
	five dietary components of the NCEP							
	ATP-III plan and TLC, DASH to prevent							
	coronary artery disease; 4) describe the							
	mechanism by which fiber, glycemic load							
	and index manage blood glucose levels.							
	#6.2: Describe the mechanism of action	Embedded exam						
	of bioactive non-nutrients in health	question						
	promotion and disease prevention (P,M).							
	80% of students will accurately (70%)							
	describe the effects of bio-active non-							
	nutrients on enzymes, transport,							
	metabolic pathways that enhance							
	general health.							
	#6.3: Determine nutrient needs across	Embedded exam						
	the lifespan. (M). 80% of students will	question						
	describe accurately (70%) how stage of							
	development changes the metabolic							
	requirement for nutrients.							
	# 6.4: Integrate knowledge of the use of	Embedded exam						
	nutrients at the molecular, cellular and	question						
	organ level (M). 80% of students will							
	accurately (70%): 1) identify regulatory							
	enzymes that utilize nutrients in							
	metabolic pathways; 2) describe the							
	differences in organ utilization of							
	nutrients; 3) identify the hormones and							
	genes activated and inhibited by dietary							
	treatment and nutrients; 4) describe the							
	metabolic flow of nutrients among							
	organs during absorptive, post-prandial,							
	post-absorptive, fasting and starvation							
	states; 5) describe the complex nature of							
	carbohydrate, protein and fat							
	metabolism in energy balance.							
	# 6.5: Integrate genetic, physiologic and	Embedded exam						
	biochemical mechanisms by which food	question						
	and nutrients promote optimal health.							
	(M). 80% of students will accurately							

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	(70%) describe intermediary metabolism regarding diabetes, ketosis, protein energy metabolism, blood pressure regulation, dehydration		
	# 6.7: Interpret basic statistics used in nutrition and medical research using statistically analyzed results (P,M). 80% of students will correctly (70%) interpret tables and figures containing data representing nutrient utilization, physiologic function, and biochemical function.	Embedded exam question	
FST 3250	#1.1 Students demonstrate how to locate, interpret, evaluate and use professional literature (P). Report of recent advances in an area of food safety. 100% of students will complete with at lest six peer-reviewed and four trade journal articles.	Rubric for report	
	#4.4: Students apply safety principles. (P) Students will identify how their own home cooking preparation meets HACCP standards with 90% of students earning a grade of 70% or higher	Homework grade	

CAL POLY POMONA COMPLIANCE MAP TO ACEND REQUIREMENTS (DIETETICS)-DEPARTMENT OFFERING-SLOS

Course												10 320										
number	1.1.1	1.1.2	2.2.1	2.2.2	2.2.3	2.2.4	2.2.5	3.3.1	3.3.2	3.3.3	4.4.1	4.4.2	4.4.3	4.4.4	4.4.5	4.4.6	4.4.7	5.5.1	5.5.2	5.5.3	5.5.4	5.5.5
NUTR 1000		Х					Х															
NUTR 1210/L														Х						Х		
NUTR 2280			X						Х													
NUTR 2350	Х	Х				Х			Х	Х					Х	Х						
NUTR 2350L	Х		Х					Х	Х													
NUTR 3130	Х	Х	Х			Х									Х							
NUTR 3280L									Х					Х	Х					Х		
NUTR 3350						Х		Х	Х							Х						
NUTR 3450/A	Х		Х	Х	Х	Х		Х	Х	Х							Х					
NUTR 3670/L			Х	Х			Х				Х		Х	Х				Х	Х			Х
NUTR 3680/L			Х	Х					Х		Х											Х
NUTR 4260			Х				Х					Х	Х	Х				Х	Х			Х
NUTR 3930																						
NUTR 3940																						
NUTR 4430/A	Х	Х	Х	Х		Х	Х	Х	Х													
NUTR 4440	Х	Х	Х	Х		Х	Х	Х	Х													
NUTR 4460/A	Х	Х	Х	Х		Х		Х	Х	Х	Х					Х	Х					
FST 3250	Х										Х			Х								
FST 3210/L	Х	Х	Х									Х		Х	Х					Х		Х

Example: 1.1.1 = Section 1: Scientific and Evidence Base of Practice: integration of scientific information and research into practice: 1.1 Students demonstrate how to locate, interpret, evaluate and use professional literature.

CAL POLY POMONA COMPLIANCE MAP TO ACEND REQUIREMENTS-DEPARTMENT OFFERINGS

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			SLUS				
Course number	6.6.1	6.6.2	6.6.3	6.6.4	6.6.5	6.6.6	6.6.7
NUTR 1000							
NUTR 1210/L							
NUTR 2280							
NUTR 2350	Х	Х	X	X			
NUTR 2350L							
NUTR 3130						Х	X
NUTR 3280L							
NUTR 3350	Х	Х	X	Х	X		
NUTR 3450/A							
NUTR 3670/L							
NUTR 3680/L							
NUTR 4260							
NUTR 3930	Х	Х	Х	X	Х	Х	Х
NUTR 3940	Х	Х	Х	X	Х	Х	Х
NUTR 4430/A	Х	Х	Х	X			
NUTR 4440	Х	Х	Х	X			
NUTR 4460/A							
FST 3250							
FST 3210/L						Х	

Example: 1. 1.1 = Section 1: Scientific and Evidence Base of Practice: integration of scientific information and research into practice: 1.1

COURSE MAPPING NUTRITION MAJOR

Course	4.4.4	112	2.2.4	2 2 2	2 2 2	224	225	2 2 4	2 2 2	2 2 2		4.4.2	4.4.2		4.4.5	4.4.6		1	F F 3
number	1.1.1	1.1.2	2.2.1	2.2.2	2.2.3	2.2.4	2.2.5	3.3.1	3.3.2	3.3.3	4.4.1	4.4.2	4.4.3	4.4.4	4.4.5	4.4.6	4.4.7	5.5.1	5.5.2
NUTR 1000		ı					ı												
NUTR 1210/L														-					
NUTR 2280			ı						I,P										
NUTR 2350	ı	Р				I,P			ı	1					ı	ı			
NUTR 2350L	ı		Р					ı	Р										
NUTR 3130	ı	I,P	ı			I,P									ı				
NUTR 3280L									Р					Р	Р				
NUTR 3350						Р		Р	Р							ı			
NUTR 3450/A	I,P		P,M	М	I,P,M	Р		Р	Р	Р							ı		
NUTR 3930																			
NUTR 3940																			
NUTR 4460/A	М	М	P,M	Р		М		Р	Р	М	Р					М	P,M		
FST 3250	I										I			I					
FST 3210/L	Р	Р	Р									I,P		Р	Р				

COURSE MAPPING NUTRITION MAJOR

Course number	5.5.3	5.5.4	5.5.5	6.6.1	6.6.2	6.6.3	6.6.4	6.6.5	6.6.6	6.6.7
NUTR 1000										
NUTR 1210/L	1									
NUTR 2280										
NUTR 2350				ı	ı	ı	ı			
NUTR 2350L										
NUTR 3130									Р	P,M
NUTR 3280L	Р									
NUTR 3350				P,M	P,M	P,M	P,M	P,M		
NUTR 3450/A										
NUTR 3930				М	М	М	М	М	М	Р
NUTR 3940				М	М	М	М	М	М	Р
FST 3250										
FST 3210/L	Р		I,P						P,M	