

CALIFORNIA STATE POLYTECHNIC UNIVERSITY, POMONA

ACADEMIC SENATE

ACADEMIC PROGRAMS COMMITTEE

REPORT TO

THE ACADEMIC SENATE

AP-005-167

Name change for Industrial Chemistry Option (quarter name) to General Option
(semester name)

Academic Programs Committee

Date: 11/02/2016

Executive Committee
Received and Forwarded

Date: 11/16/2016

Academic Senate

Date: 11/30/2016
First Reading
01/11/17
Second Reading

BACKGROUND: The Department of Chemistry and Biochemistry has put forward a proposal to change the name of the Industrial Chemistry Option. The new name of this option will be “General Option”.

The Department of Chemistry and Biochemistry has three options under the Bachelor of Science in Chemistry: The Chemistry Option, the Industrial Chemistry Option, and the Biochemistry Option. The Department is proposing that the Chemistry Option, being accredited by the American Chemical Society, have its name changed to “ACS Option” to reflect that accreditation. In tandem with this, the Department is proposing that the Industrial Chemistry Option, being designed for students interested in a wide range of career paths, have its name changed to “General Option” to reflect its flexibility.

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 Science as well as the Dean of Science 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 proposal to change the name of the Industrial Chemistry Option to Chemistry—General Option under semesters.

CURRICULUM SHEET FOR SEMESTER CONVERSION

Program Name: Chemistry Major (General Option)				
Total Units (Major [including option/emphasis]+GE-Double Count): 72 + 48 GE = 120				
Major Core Courses –Units: 48				
Course Number	Title	Units (lec/lab)	R or C	GE Area Double Count (Y/N)
CHM 1210/1210L	General Chemistry I with Lab (B1/B3)	3/1	R	
CHM 1220/1220L	General Chemistry II with Lab (B1/B3)	3/1	R	
CHM 2210/2210L	Quantitative Analysis	2/2	R	
CHM 2910A	Scientific Communication	1	R	
CHM 3140/3140L	Organic Chemistry I with Lab	4/1	R	
CHM 3150/3150L	Organic Chemistry II with Lab	3/1	R	
CHM 3270/3270L	Biochemistry I with Lab	3/1	R	
CHM 3420/3420L	Spectroscopic Methods with Lab	1/1	R	
CHM 3430/3430L	Separation Methods with Lab	1/1	R	
CHM 3520L	Physical Chemistry Lab	2	R	
PHY 1510/1510L	Introduction to Newtonian Mechanics with Lab (B1/B3)	3/1		Y (4 units)
PHY 1520/1520L	Introduction to Electromagnetism & Circuits with Lab	3/1		
MAT 1140	Calculus I (B4)	4		Y (4 units)
MAT 1150	Calculus II (B4)	4		
Major Courses – Core Electives – Units: 0				
Course Number	Title	Units (lec/lab)	R or C	GE Area Double Count (Y/N)

Option Core Courses – Units: 10				
Course Number	Title	Units (lec/lab)	R or C	GE Area Double Count (Y/N)
CHM 3040/3050 <i>or</i> CHM 3110/3112	Elements of Physical Chemistry I & II <i>or</i> Classical & Quantum Physical Chemistry	3, 3	R	
BIO 1150/1150L	Basic Biology	3/1		Y (4 units)
Option Electives – Units: 23 (up to 12 units may come from outside CHM)				
Course Number	Title	Units (lec/lab)	R or C	GE Area Double Count (Y/N)
Students can take any 3000-4000 level chemistry courses not already counted in core to satisfy units. See advisor/dept for suggested courses in emphases that prepare for specific areas in chemistry or to tailor your curriculum to career goals.				
Unrestricted Electives				0-3

*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.*

Year 1	Fall Semester	Units	Winter Semester	Units	Comment
	CHM 1210/L	3/1	CHM 1220/L	3/1	
	MAT 1140 (GE B4)	4	MAT 1150	4	
	BIO 1150/L (GE B2/3)	3/1	PHY 1510/L (GE B1/3)	3/1	
	GE A1-3	3	GE A1-3	3	
	Total	15	Total	15	

Year 2	Fall Semester	Units	Winter Semester	Units	Comment
	CHM 2210/L	2/2	CHM 2910A	1	
	CHM 3140/L	4/1	CHM 3150/L	3/1	
	PHY 1520/L (GE B1/3)	3/1	GE D1-3	3	
	GE C1-3	3	GE A1-3	3	
			GE C1-3	3	
Total	16	Total	14		

Year 3	Fall Semester	Units	Winter Semester	Units	Comment
	CHM 3270/L	3/1	Option Elective*	4	
	CHM 3420/L	1/1	Option Elective*	3	
	CHM 3430/L	1/1	Option Elective*	3	
	GE D1-3	3	GE C4	3	
	GE C1-3	3	GE B5	3	
	Total	14	Total	16	

Year 4	Fall Semester	Units	Winter Semester	Units	Comment
	CHM 3040	3	CHM 3050	3	
	Option Elective*	4	CHM 3520L	2	
	Option Elective*	3	Option Elective*	3	
	Option Elective*	3	GE D4	3	
	GE D1-3	3	GE E	3	
	Total	16	Total	14	

*There are 23 units of electives in this option, of which no more than 12 may be units from outside the discipline (CHM). Students are advised to consult with advisor on course selection to meet career goals. Students who wish to pursue senior research to satisfy part of their option elective units should take CHM 4610, 4620, and 4630 (2/2/1). You should plan on taking one year to complete this requirement.

Year 3	Fall Semester	Units	Winter Semester	Units	Comment
	CHM 2210/L	2/2	CHM 3440/L	1/1	
	CHM 3040	3	CHM 3050	3	
	CHM 3270/L	3/1	CHM 3520L	2	
	CHM 2910A	1	Option Elective*	3	
	GE C4	3	GE E	3	
			GE B5	3	
	Total	15	Total	16	

Year 4	Fall Semester	Units	Winter Semester	Units	Comment
	CHM 3430/L	1/1	Option Elective*	4	
	CHM 3420/L	1/1	Option Elective*	4	
	Option Elective*	3	Option Elective*	4	
	Option Elective*	4	GE D4	3	
	Option Elective*	3			
Total	14	Total	15		

**Students wishing to pursue a senior research project should take CHM 4610, 4620, and 4630 (2/2/1) to satisfy electives. It generally takes one year to complete the project.*

Chemistry & Biochemistry Department 2 Year Course Offerings

Please note that offerings are subject to budget and instructor availability, please consult BroncoDirect for the most up to date course offerings

CHM Course	AY 2018-2019			AY 2019-2020		
	Fall	Sp	Su	Fall	Sp	Su
CHM 1010/L	X	X	X	X	X	X
CHM 1150	X	X	X	X	X	X
CHM 1210/L	X	X	X	X	X	X
CHM 1220/L	X	X	X	X	X	X
CHM 2010/L	X	X	X	X	X	X
CHM 2120/L		X			X	
CHM 2210/L	X	X	X	X	X	X
CHM 2600		X				
CHM 2910A	X	X		X	X	
CHM 3010		X			X	
CHM 3040	X			X		
CHM 3050		X			X	
CHM 3110	X			X		
CHM 3120		X			X	
CHM 3140/L	X	X	X	X	X	X
CHM 3150/L	X	X	X	X	X	X
CHM 3210	X	X	X	X	X	X
CHM 3270/L	X	X		X	X	
CHM 3280/L	X	X		X	X	
CHM 3310/L		X			X	
CHM 3400		X			X	
CHM 3420/L	X			X		
CHM 3430/L	X			X		
CHM 3440/L		X			X	
CHM 3470/L				X		
CHM 3520L	X	X		X	X	
CHM 3600				X		
CHM 4010	X			X		
CHM 4090				X		
CHM 4110			X			
CHM 4130					X	
CHM 4150	X			X		
CHM 4160				X		
CHM 4170		X				
CHM 4180				X		
CHM 4190					X	
CHM 4200	X					
CHM 4210		X				
CHM 4220/L		X				

