Bachelor of Science in Chemistry Program Requirements Check-List 2011/12/13 bulletin

1. B.S. IN CHEMS	ITRY MAJOR REQUIREMENTS ¹	Semester	Grade	
ACHM 111	(General Chemistry I and Lab) ¹	(4)		
ACHM 112	(General Chemistry II and Lab)	(4)		
ACHM 331	(Organic Chemistry I)	(3)		
ACHM 331L	(Organic Chemistry I Lab)	(1)		
ACHM 332	(Organic Chemistry II)	(3)		
ACHM 332L	(Organic Chemistry II Lab)	(1)		
ACHM 310	(Methods of Research & Computers)	(1)		
ACHM 321	(Quantitative Analysis)	(3)		
ACHM 321L	(Quantitative Analysis Lab)	(1)		
ABIO 541	(Biochemistry I) ²	(3)		
ACHM 541	(Physical Chemistry I)	(3)		
ACHM 541L	(Physical Chemistry I Lab)	(1)		
ACHM 542	(Physical Chemistry II)	(3)		
ACHM 542L	(Physical Chemistry II Lab)	(1)		
ACHM 311	(Introduction Inorganic Chemistry)	(3)		
ACHM 311L	(Introduction Inorganic Chemistry Lab)	(1)		
ACHM 511 ACHM 511L	(Advanced Inorganic Chemistry) (Advanced Inorganic Chemistry Lab)	(3)		
	•	(1)		
ACHM 522 ACHM 499	(Instrumental Analysis and Lab) (Senior Research) ³	(4)		
ACHM 499 ACHM 499	(Senior Research) ³	(2-3)		
ACHIVI 477		, ,		
	Total H	ours Required	47 - 50 c	redit hours
	UCATIONAL REQUIREMENTS			
A. Intellectual and	Practical Skills	_		
Critical Inquiry		Semester	Grade	Test Out
AFCI 101	(Critical Inquiry)	(1)		Transfer exemption
English				
AEGL 101	(Composition) ⁴	(3)		
AEGL 102	(Composition and Literature) ⁴	(3)		
	on (choose one of the following:)	(2)		
	or ACOM 241	(3)		
Mathematics	_			Test Out
AMTH 111	(Pre-Calc I) ⁵	(3)		
AMTH 112	(Pre-Calc II) ⁵	(3)		
AMTH 141 AMTH 142	(Calculus I) ⁵ (Calculus II) *	(4) (4)		
	42 is a prerequisite for ACHM 541	(4)		
	• •			
Undergraduate Writ	ting Proficiency ortfolio turned in approved	OD AECI	201 (Weiting	g in the Univ) (4)
	equirement (3 courses completed <u>after</u> cor			
ACHM 541L	(Physical Chemistry I Lab)		Others	
ACHM 542L	(Physical Chemistry II Lab)			
ACHM 511L	(Advanced Inorganic Chemistry Lab)			
(transfer student	ts need one course for each 30 hours at US	CA)		
	Tota	al Hours Require	ed 18 credit	t hours (24 hr MTH 111 plcmt)
	luman Cultures and the Physical and Na	atural World	a	
Natural Sciences	1 1		Semester	
ABIO 121 (Bio		real Dhygiag I)	(4)	
APHY 211 (Ca APHY 212 (Ca		eral Physics I)	(4)	_
	(S 201 and 202 may be substituted for 211 and 2		(4)	
History of Civilizati		Semester	Grade	0. 44,1001.
	HST 102 (circle one)	(3)		
second Language	at least 2 semesters of the same language			
	()	(4) (4)		
	'	\''\		

Social and Behavior Psychology,		st 2 areas, at le	ast 6 credits) ⁷				
Course Num.	Course Title (√ no	on-Western ⁷	Semester	Grade		
	()	() _ Tota	l at least 6 cre	edit hours		
Humanities (at least							
	(last two digits mu ogic), selected Lan	guage courses	, Humanities (A	HUM), Hono		History, Theater H	istory, Religion,
Course Num.	Course Title	√ nc	on-Western ⁷	Semester	Grade		
	()	()_				
		,		1 at least 9 cre			
			Total Hours I	Required	38 credit hour	s	
C. Personal and So American Political A PLS 201, o				Semester (3)	Grade		
ICE events Students are requ	nired to attend at le	ast 2 ICE app		r each semest	er enrolled at US	SCA. ALL of these	e events must be
	Second		Third Yea		Fourth Year	Extra Seme	esters
approved by the exception of for 241/242, & AF Students may choose 4 three and OR •3 four credic [A part ABIO 2	onal concentration ect area and more the major departme free electives. Clas BIO 242. A minor in the to complete the 1 for four credit hour it hour courses (e.g. ial list of 4 credit courses, several 300+ A	than one dep nt. Cognate coses that can of n another disci 2 credit hour of courses possil AMTH 241, ognates includ ABIO courses	partment. Cogni- courses cannot be count as cognate ipline will repla cognate requirer bly including or APHY 212, AB es; AMTH 241 including ABIO	ate courses so the counted as the include and the cognatument with eith the summer could be su	hould be junior- major or genera y 300+ course, A e requirement. her: urse. APLS 301, AHS' //316/320/325/330	senior level cours l education requir AENG 200+, API T 300, ASCY 310	ses and must be rements with the HY 212, AMTH
Minor: Requireme minor requ	irements. Students			y have to take		those who select	
		Semester	Grade				mester Grade
()	()	<u> </u>		_ () ()_) ()_) ()_	
4. ELECTIVES Course Num.	Cognate (A total of at least Course T				Minor: Dept	Total	credit hours
	()					
2 - ABIO 121 and	or higher is required cessful complete th ACHM 332 are pro- a thesis and semina	in all chemist ese courses be erequisites for	ry courses country fore enrolling in ABIO 541.	nting toward the any chemist	ry course.	its placing in Math	ematics 108 or

- Students must complete English 101/102 with a grade of C or better in order to fulfill general education requirements. Freshmen should take English in their first semester unless they have already completed the 101/102 requirement. Students must complete AEGL 102 with a grade of C or better before taking other English courses and for any course to count as Writing Intensive including ACHM 541L, 542L, and 511L.
- 5 Freshmen should take Math in their first semester unless they have already completed their math requirement. AMTH 111 and AMTH 112 may be taken in any order or at the same time. AMTH 111 and 112 count as elective credits but are pre-requisites for AMTH 141/142.
- 6 APHY 212 can be counted toward a cognate.
- 7 At least three (3) credit hours of the degree must be in non-Western studies. A list of courses that meet this requirement can be found in the Academic Regulations/General Education Section of the appropriate Student Bulletin. (May 2013 Revised)