



**B.S. in Chemistry Education**  
**CHEMEDBS.2017 (mrs 1244, 1246, 1423)**  
**62-80 credits**

Effective Date: 09/2017

<b>Name of Student:</b>		
<b>Student ID #:</b>		Graduation Date
<b>Home Country:</b>	<input type="checkbox"/> IWORK	
<b>Advisor:</b>	Name	Date

**Chemistry Core** **17 Credits**

Course #	Title	Hr.	Prerequisites	Offered	Sem.	Grade
CHEM 105/L	General Chemistry I/Lab	4	MATH 110 w/C- or better (MATH 110 can be a corequisite if MATH 101 was completed-see Advisor), or ACT Math score 22+ or SAT Math score 520+. (High School Chemistry or CHEM 101 highly recommended)	F, W		
CHEM 106/L	General Chemistry II/Lab	4	CHEM 105/L w/C- or better	W, S		
CHEM 201	Chemical and Laboratory Safety	1	CHEM 105/L	F, W, S		
CHEM 351/L or	Organic Chemistry I/Lab	4	CHEM 106/L w/C- or better, CHEM 201 (co- or prerequisite)	F, W		
CHEM 326/L	Analytical Biochemistry/Lab		CHEM 106/L w/C- or better, CHEM 201 (co- or prerequisite)	F		
CHEM 491	Undergraduate Research	1	CHEM 351/L (completion of CHEM 326/L or 481 and 483L is recommended)	S		
CHEM 492-4	Undergraduate Research	3	CHEM 491	F-F-W		

**Science Electives** *Choose at least 7 courses* **22 Credits**

SCI 99	Successful Practices in Learning Science	1		F, W, S		
SCI 201	Scientific Reasoning	3		F, W, S		
BIOL 112/L	Biology I – Cell and Molecular Biology/Lab	4		F, W, S		
BIOL 113	Biology II – Evolution, Ecology, and Organismal Biology	3	BIOL 112/L	F, W, S		
GEOL 105	Geology of the Pacific Basin	3		F, W, S		
MATH 212	Calculus I	5		F, W, S		
PHYS 121/L	General Physics I/Lab	4	MATH 212 and either High School Trigonometry or MATH 111	F, W		
PHYS 220/L	General Physics II/Lab	4	PHYS 121/L, (Completion of MATH 213 is recommended)	F, W		
PHYS 221/L	General Physics III/Lab	4	PHYS 121/L, (Completion of MATH 213 is recommended)	S		
CHEM 326/L	Analytical Biochemistry/Lab	4	CHEM 106/L w/C- or better, CHEM 201 (co- or prerequisite)	F		
CHEM 351	Organic Chemistry I	3	CHEM 106/L w/C- or better, CHEM 201 (co- or prerequisite)	F, W		
CHEM 351L	Organic Chemistry I Lab	1	Co- or prerequisite: CHEM 351	F		
CHEM 352	Organic Chemistry II	3	CHEM 351 w/C- or better	F, W		
CHEM 352L	Organic Chemistry II Lab	1	CHEM 351/L; Co- or prerequisite: CHEM 352	W		
CHEM 395	Organic Spectroscopy	3	CHEM 352/L	S-odd		
CHEM 450	Advanced Organic Synthesis	3	CHEM 352/L	S-even		
CHEM 481	Biochemistry I	3	BIOL 112/L w/C- or better, CHEM 351 w/C- or better (completion of BIOL 376 or 441 is strongly recommended)	F, S		
CHEM 483L	Biochemistry Methods Lab I – Proteins	1	Co- or prerequisite: CHEM 481	F, S		
CHEM 485L	Biochemistry Methods Lab III – Mammalian Cells	1	Co- or prerequisite: Any one of the following: CHEM 481, CHEM 482, BIOL 441 or BIOL 442	W		

**Education** **23-41 Credits**

EDU 212	Foundations of Education	2		F, W, S		
EDU 200	Human Growth and Learning in Schools	3		F, W, S		

*Recommended Elective:*

HWST 101	Introduction to Hawaiian Studies	3	Required for Hawaii License Track	F, W, S		
EDU 340	Multiculturalism & Cul. Resp. Tch (SIOP)	2	Required for International Track	F, W		

*Apply to School of Education*

<b>Non License Track</b> <input type="checkbox"/> All students begin in this track and can choose to stay here or apply by deadline for another track.		<b>Hawaii License Track</b> <input type="checkbox"/> Priority Deadline: Submit SoEd application by: Feb 15    May 15    Sept 15		<b>International Track</b> <input type="checkbox"/> Priority Deadline: Submit SoEd application by: Feb 15    May 15    Sept 15	
SPED 300	Education of Exceptional Students	3	EDU 200	F, W, S	
EDU 305	Comp./Tech. Assisted Instruction	2	EDU 212 for Education majors/minors or TESOL 240 for TESOL major/certs only	F, W, S	
EDU 312	Effective Pedagogy	3	EDU 212	F, W, S	
EDU 385	Education Assessment in the Classroom	3	EDU 312	F, W, S	
SCED 350	General Methods for Secondary Teachers	2	EDU 312	F, W	
SCED 401	A Multicultural Approach to Reading in the Content Area	3	EDU 312, Corequisite with SCED 491	F, W	



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SCED 430	Classroom Management in Secondary Contexts	2	EDU 312, Corequisite with SCED 491	F,W		
SCED 491	Observation and Practicum	3	EDU 312, corequisite with SCED 401, SCED 430, and formal admission to SOE	F,W		
SCED 492	Student Teaching	12	SCED 491	F,W		

**Total Credits Mapped for Graduation:**

No grade below "C-" accepted

All courses in the Education major can be retaken 1 time to improve a grade lower than C-. If the second attempt is lower than a C-, the student will be removed from the major.