



**University of Hawai'i at Mānoa – Four-Year Academic Plan 2013-2014**  
**College of Education**  
**Bachelor of Education (BE) in Secondary Education**  
**Specialization: Chemistry**

This is a sample academic plan. Students should meet with an academic advisor prior to registration to formulate their own plan.

Year 1		Year 2		Year 3		Year 4	
Fall		Fall		Fall		Fall	
CHEM 161 (DP)	3	MATH 243	3	CHEM 351	3	ITE 402	3
CHEM 161L (DY)	1	CHEM 272	3	ITE 401	3	ITE 404H	3
BIOL 171 (DB)	3	CHEM 272L	2	Earth/Science Foun.	3	ITE 440	3
BIOL 171L	1	Earth/Science Foun.	3	PHYS 170	4	SPED 445	3
MATH 241 (FS)	4	Earth/Science Foun. Lab	1	PHYS 170L	1	Elective	3
FG (A/B/C)	3	History/Philosophy of Science (DH)	3	Elective	3		
Credits	15	Credits	15	Credits	17	Credits	15
Spring		Spring		Spring		Spring	
CHEM 162	3	Submit Application in January		ICS 101/101L or ETEC 442	3	ITE 405H	9
CHEM 162L	1	CHEM 273	3	EDEP 311 (DS)	3	ITE 406H	3
BIOL 172	3	CHEM 273L	1	EDEF 310 (DS)	3		
BIOL 172L	1	CHEM 274	3	PHYS 272	3		
MATH 242	4	CHEM 274L	2	PHYS 272L	1		
FW	3	FG (A/B/C)	3	Elective	3		
		DA/DL	3				
Credits	15	Credits	15	Credits	16	Credits	12
Summer		Summer		Summer		Summer	
Credits	0	Credits	0	Credits		Credits	0
<b>Total Credits</b>	<b>30</b>	<b>Total Credits</b>	<b>60</b>	<b>Total Credits</b>	<b>93</b>	<b>Total Credits</b>	<b>120</b>

**Notes:**

- Additional Admission Requirements: 40 hours of documented experience; interview; 55 credits.
- Students must take placement exams to be able to register for CHEM 161 and 241.
- Students must incorporate all focus requirements into this plan.
- Plan to take PRAXIS I exam as soon as possible and before year 2.
- Minimum 45 upper division (300+ course) credits are required.