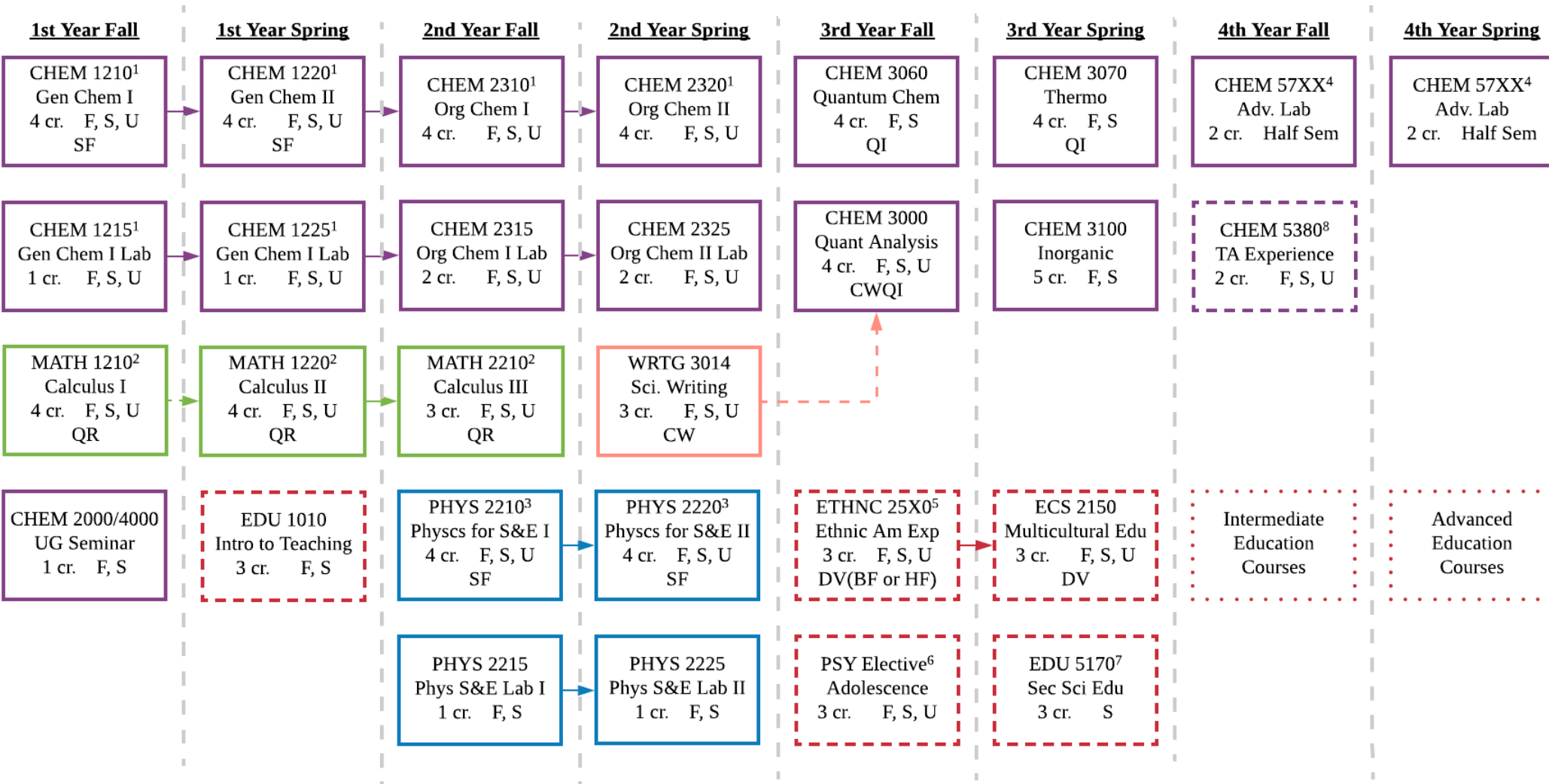


Chemistry Course Requirements - Teaching Emphasis (2018-2019)

The Teaching emphasis is a great option for students who are interested in teaching high school chemistry, where jobs are readily available. Students should meet with education department early in their degree to ensure certification by end of degree.



- Honors versions of available. Sequence starts in the Fall. Must apply to be in the class.
- Talk with advisors to see how other calculus sequences could fulfill the calculus requirement.
- Honors versions are PHYS 3210 + 3220.
- 2 upper division labs required. Fall options: CHEM 5710 (org) 1st half, CHEM 5730 (inorg) 2nd half. Spring options: CHEM 5700 (ana) 1st half, CHEM 5720 (phys) 2nd half, CHEM 3200 (radiochem) + NUCL 4000 Spring + Fall.
- Can take ETHNC 2550 – 2590. Some classes also satisfy BF or HF.
- Check DARS to see other accepted courses.
- Can also take EDU 5375 (Science Methods) offered in F, S, U – but EDU 5170 is preferred
- PHYS 3949, (CHEM 4800 (research), or CHEM 4999 (Honors Thesis) can replace.

Chemistry Course Requirements – Teaching Emphasis (Without Certification) (2018-19)

The Teaching emphasis is a great option for students who are interested in teaching high school chemistry, where jobs are readily available. Students should meet with education department **early in their degree** to ensure certification by end of degree.

Teaching Emphasis										
Done?	Dept.	Number	Course Name	Credit Hours	Gen Ed/ Bach Req	Prerequisites		Taught		
						Chemistry	Math/Other	F	S	U
MATH CLASSES										
<input type="checkbox"/>	MATH	1210	Calculus I ^o	4	QR		1080	x	x	x
<input type="checkbox"/>	MATH	1220	Calculus II ^o	4	QR		MATH 1210	x	x	x
<input type="checkbox"/>	MATH	2210	Calculus III ^o	4	QR		MATH 1220	x	x	x
PHYSICS CLASSES										
<input type="checkbox"/>	PHYS	2210	Physics for Sci & Eng I ^o	4	SF		MATH 1210	x	x	x
<input type="checkbox"/>	PHYS	2215	Physics Lab for Sci & Eng I	1			MATH 1210	x	x	
<input type="checkbox"/>	PHYS	2220	Physics for Sci & Eng II ^o	4	SF		MATH 1220 + PHYS 2210	x	x	x
<input type="checkbox"/>	PHYS	2225	Physics Lab for Sci & Eng II	1			MATH 1220 + PHYS 2210	x	x	
CHEMISTRY CLASSES										
<input type="checkbox"/>	CHEM	2000/4000	Undergrad Seminar	1				x	x	
<input type="checkbox"/>	CHEM	1210 + 1215	General Chemistry I ^o + Lab	4 + 1	SF		MATH 1050	x	x	x
<input type="checkbox"/>	CHEM	1220 + 1225	General Chemistry II ^o + Lab	4 + 1	SF		CHEM 1210 + 1215	x	x	x
<input type="checkbox"/>	CHEM	2310 + 2315	Organic Chemistry I ^A + Lab	4 + 2			CHEM 1220 + 1225	x	x	x
<input type="checkbox"/>	CHEM	2320 + 2325	Organic Chemistry II ^A + Lab	4 + 2			CHEM 2310 + 2315	x	x	x
<input type="checkbox"/>	CHEM	3000	Quantitative Analysis	4	QI, CW		CHEM 1220	x	x	x
<input type="checkbox"/>	CHEM	3060	Quantum Chemistry & Spect	4	QI		MATH 2210 + PHYS 2220	x	x	
<input type="checkbox"/>	CHEM	3070	Thermodynamics & Kinetics	4	QI		MATH 2210 + PHYS 2220	(x)	x	
<input type="checkbox"/>	CHEM	3100	Inorganic Chemistry	5			CHEM 1220 CHEM 2320 + 3060	x	x	
<input type="checkbox"/>	WRTG	3014	Scientific Writing	3			WRTG 2010	x	x	x
ADVANCED LABS - Choose 2										
<input type="checkbox"/>	CHEM	5700	Analytical Chemistry Lab	2	CW		CHEM 3000			1st
<input type="checkbox"/>	CHEM	5710	Organic Chemistry Lab	2			CHEM 2320			1st
<input type="checkbox"/>	CHEM	5720	Physical Chemistry Lab	2			CHEM 3060, 3070			2nd
<input type="checkbox"/>	CHEM	5730	Inorganic Chemistry Lab	2			CHEM 3100			2nd
<input type="checkbox"/>	CHEM	3200	Radiochemistry	3						x
TEACHING ELECTIVES¹										
<input type="checkbox"/>	EDU	1010	Intro to Teaching	3				x	x	
<input type="checkbox"/>	ETHNC	2550-2590	Ethnic Experiences	3	DV			x	x	x
<input type="checkbox"/>	ECS	3150	Multicultural Education	3	DV			x	x	x
<input type="checkbox"/>	ELP	3140	Teachers & Law	3				x	x	x
<input type="checkbox"/>	PSY ^o			3				x	x	(x)
<input type="checkbox"/>	EDU	5170 or 5375	Secondary Science Methods or Science Methods ^T	3	3					x
<input type="checkbox"/>	CHEM	5380	TA Service	2				x	x	x

^o: Can take whichever calculus sequence is appropriate, talk to advisor about sequencing.

^o: Honors versions are PHYS 3210 + 3220.

^o: Honors versions of General Chemistry are CHEM 1211 + 1221. Sequence starts in the Fall. Must apply to be in the class.

^o: Honors versions of Organic Chemistry are CHEM 2311 + 2321. Sequence starts in the Fall.

^o: Need Adolescent psychology course (PYS, FCS, ED PS). There are multiple options: see list of approved courses and DA.RS, ED PS 3030 counts as a BF, gen ed.

^o: Visit with Education Advisor (Sara Hatch) for entrance into certification program.

^T: PHYS 3949, CHEM 4800 (research), CHEM 4965 (internship), or CHEM 4999 (Honors Thesis) can waive, with approval