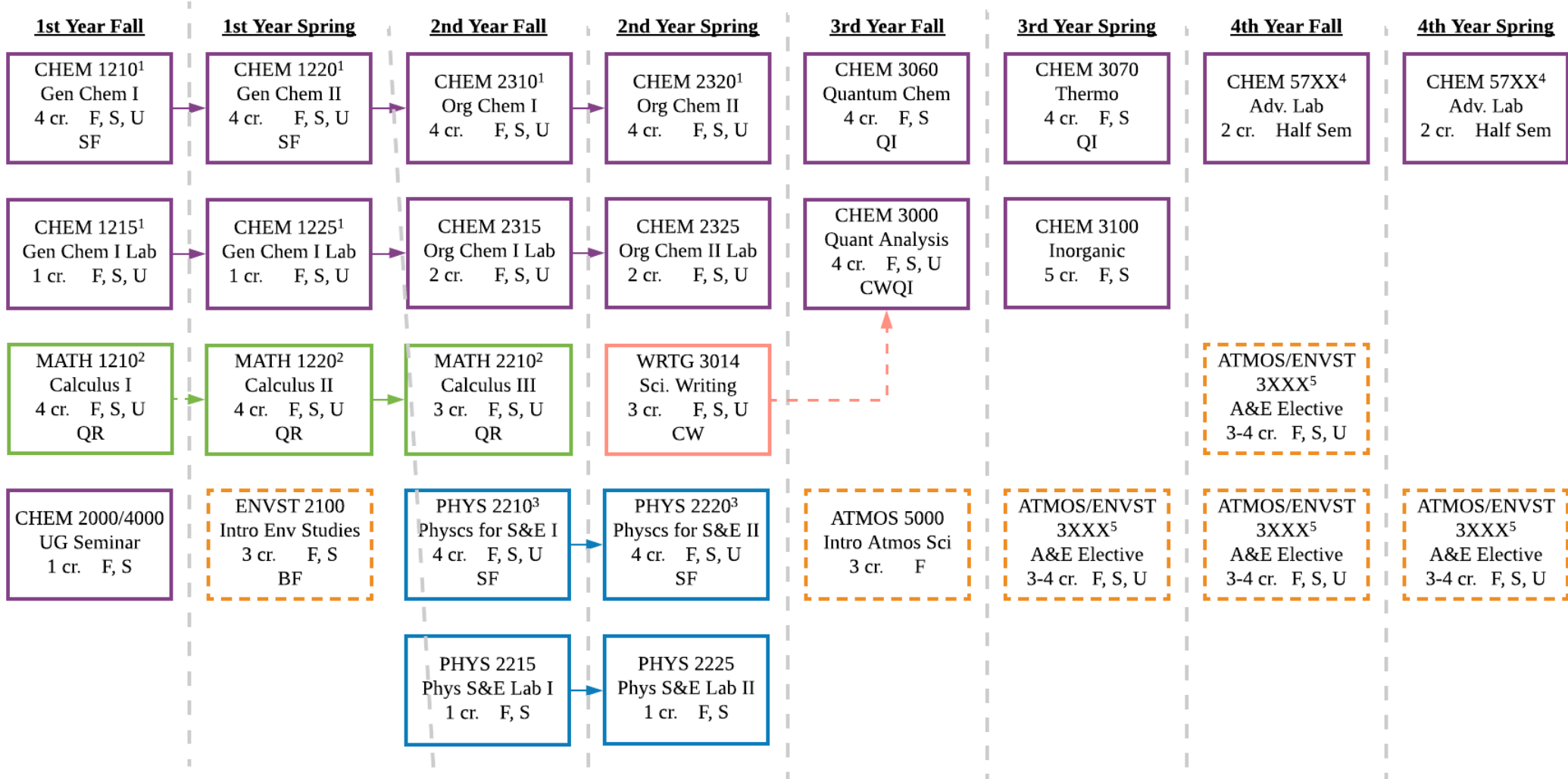


Chemistry Course Requirements - Atmospheric & Environmental Chemistry (A&E) Emphasis (2018-2019)

Whether you want to study the science behind the atmosphere or the impact of humans on the environment, the A&E emphasis allows students to tailor their degree in a way that will make a lasting impact on society and the world.



- 1) Honors versions of available. Sequence starts in the Fall. Must apply to be in the class.
- 2) Talk with advisors to see how other calculus sequences could fulfill the calculus requirement.
- 3) Honors versions are PHYS 3210 + 3220.
- 4) 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.
- 5) In addition to ENVST 2100 and ATMOS 5000, students need at least 14 credits of electives within the Atmospheric Science and/or Environmental Studies departments. Check Degree Audit to see accepted courses. Contact chemistry advisors to determine if a course not listed could fulfill this requirement. CHEM 4800 (research), CHEM 4999 (Honors Thesis), or CHEM 4965 (internship) can waive 2 credits.

Chemistry Course Requirements – Atmospheric & Environmental Emphasis (2018-19)

Whether you want to study the science behind the atmosphere or the impact of humans on the environment, the A&E emphasis allows students to tailor their degree in a way that will make a lasting impact on society and the world.

Atmospheric & Environmental 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		MATH 1060 or 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		
<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		
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	MATH 1220	x	x
<input type="checkbox"/>	CHEM	3060	Quantum Chemistry & Spect	4	QI		CHEM 1220	MATH 2210 + PHYS 2220	x	x
<input type="checkbox"/>	CHEM	3070	Thermodynamics & Kinetics	4	QI		CHEM 1220	MATH 2210 + PHYS 2220	x	x
<input type="checkbox"/>	CHEM	3100	Inorganic Chemistry	5			CHEM 1220		x	x
<input type="checkbox"/>	WRTG	3014	Scientific Writing	3			CHEM 2320 + 3060	WRTG 2010	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
ATMOSPHERIC & ENVIRONMENTAL ELECTIVES[†]: Need 14 cr. of A&E electives after intro courses listed below										
<input type="checkbox"/>	ENVST	2100	Intro to Environ and Sust	3	BF			x	x	
<input type="checkbox"/>	ATMOS	5000	Intro Atmos Sci	3				x		
<input type="checkbox"/>										
<input type="checkbox"/>										
<input type="checkbox"/>										

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

⊙: Honors versions are PHYS 3210 + 3220.

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

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

†: CHEM 4800 (research), CHEM 4965 (internship), or CHEM 4999 (Honors Thesis) can count for up to 2 credit hours of A&E elective