Chemistry Course Requirements - Atmospheric & Environmental Chemistry (A&E) Emphasis (2020-2021)

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.

1st Year Fall
- CHEM 1210\(^1\) Gen Chem I
  - 4 cr. F, S, U
- MATH 1210\(^2\) Calculus I
  - 4 cr. F, S, U
- ENVST 2100 Intro Env Studies
  - 3 cr. F, S

1st Year Spring
- CHEM 1215\(^1\) Gen Chem I Lab
  - 1 cr. F, S, U
- MATH 1220\(^2\) Calculus II
  - 4 cr. F, S, U
- PHYS 2210\(^3\) Physics for S&E I
  - 4 cr. F, S, U

2nd Year Fall
- CHEM 2310\(^1\) Org Chem I
  - 4 cr. F, S, U
- MATH 2210\(^2\) Calculus III
  - 3 cr. F, S, U
- PHYS 2215
  - 1 cr. F, S

2nd Year Spring
- CHEM 2320\(^1\) Org Chem II
  - 4 cr. F, S, U
- WRTG 3014 Sci. Writing
  - 3 cr. F, S, U
- PHYS 2220\(^3\) Physics for S&E II
  - 4 cr. F, S, U

3rd Year Fall
- CHEM 3060 Quantum Chem
  - 4 cr. F, S
- PHYS 2225
  - 1 cr. F, S

3rd Year Spring
- CHEM 3070 Thermo
  - 4 cr. F, S
- ATMOS 5000 Intro Atmos Sci
  - 3 cr. F

4th Year Fall
- CHEM 57XX\(^4\) Adv. Lab
  - 2 cr. Half Sem
- ATMOS/ENVST 3XXX\(^5\) A&E Elective
  - 3-4 cr. F, S

4th Year Spring
- CHEM 57XX\(^4\) Adv. Lab
  - 2 cr. Half Sem
- ATMOS/ENVST 3XXX\(^5\) A&E Elective
  - 3-4 cr. F, S

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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 additional 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.