

2017-2018 ATMOSPHERIC CHEMISTRY COURSES

Courses that strongly recommended for all atmospheric students (F = Fall, W = Winter, S = Spring, Sm = Summer)

Chemistry 200	Conduct of Research (F)
Chemistry 213	Chemical Kinetics (S)
Chemistry 245A	Gas-Phase Atmospheric Chemistry (F)
Chemistry 231A	Fundamentals of Quantum Mechanics (F)
Chemistry 232A	Thermodynamics & Statistical Mechanics (W)
Chemistry 241	Current Issues Related to Trop & Strat Proc (S) (<i>not offered in 2017-18</i>)
Chemistry 245B	Multi-Phase Atmospheric Chemistry (W)
Chemistry 245C	Special Topics in Atmospheric Chemistry (W)

Elective courses

Chemistry 230	Classical Mechanics & Electromagnetic Theory (F)
Chemistry 231B	Applications of Quantum Mechanics (W)
Chemistry 231C	Molecular Spectroscopy (S)
Chemistry 232B	Advanced Topics in Statistical Mechanics (S)
Chemistry 233	Nuclear and Radiochemistry (F)
Chemistry 243	Advanced Instrumental Analysis (W) (<i>will be offered in 2018-19</i>)
Chemistry 242	Applied Optics (S) (<i>taught by Physics</i>)
Chemistry 244	Radiation Detection (S)
Chemistry 246	Separations (F)
Chemistry 248	Electrochemistry (W) (<i>will be offered in 2018-19</i>)
Chemistry 249	Analytical Spectroscopy (W)
Chemistry 263	Materials Chemistry (W)

Elective ESS courses

ESS 202	Climate Change (TBD)
ESS 226	Land Surface Processes (TBD)
ESS 240	Atmospheric Chemistry and Physics (F)
ESS 262	Global Biogeochemical Cycles (TBD)

SAMPLE 1st YEAR SCHEDULE: ATMOSPHERIC CHEMISTRY

Chem 200 and 290 are required for all first-year students. Chem 290 is worth 1 credit hour; most other classes are worth 4 credit hours. Hours for 280 (research once in a group), 291 (research seminar once in a group), 399 (teaching) vary. Your total should be between 12-16 credit hours.

FALL 2017	WINTER 2018	SPRING 2018
<u>231A</u> : Fundamentals of Quantum Mechanics (Martin)	<u>232A</u> : Thermodynamics and Statistical Mechanics (Martens)	<u>213</u> : Chemical Kinetics (Smith)
<u>245A</u> : Gas-Phase Atmospheric Chemistry (Shiraiwa)	<u>245B</u> : Multi-Phase Atmospheric Chemistry (Finlaysson-Pitts)	<u>244</u> : Radiation Detection (Nilsson/Miller)
<u>ESS 240</u> : Atmospheric Chemistry and Physics (Kim)	<u>245C</u> : Special Topics in Atmospheric Chemistry (Abbatt)	
<u>200</u> : Conduct of Research (Nizkorodov)	Complete rotations; join a group	<u>280</u> : Start research in your group
<u>290</u> : P-Chem seminar	<u>290</u> : P-Chem seminar	<u>290</u> : P-Chem seminar
<u>399</u> : Teaching	<u>399</u> : Teaching	<u>399</u> : Teaching
<i>Other courses to consider: <u>230</u></i>	<i>Other courses to consider: <u>231B</u>, <u>263</u>, ESS courses</i>	<i>Other courses to consider: <u>242</u>, <u>232B</u>, ESS courses</i>