

Chemistry Major Advising Check-List

January 19, 2007

There are two Chemistry major tracks:

Augustana Chemistry major - 38-40 credit hours in Chemistry plus 8 credit hours in Math

American Chemical Society Approved major - 44 credit hours in Chemistry, 8 credit hours in Math, and 8 credit hours in Physics.

A major in Chemical Physics is also offered. Visit the Physics Department Home Page (<http://www.augie.edu/dept/phys/aboutChemPhysDegree.shtml>) for more details on that major or view the Chemical Physics Advising Check-List (<http://faculty.augie.edu/~dew/l-chemphys.pdf>).

Students seeking certification for teaching must also complete the requirements for the **Secondary Education Major** (<http://www.augie.edu/dept/courses/educat.html#secondary>). In addition students are encouraged to obtain an endorsement in one or more additional fields (e.g. Math, Biology, Physics, etc.) to provide employment flexibility.

Required for both tracks:

Chem 120	Intro to Chem	_____		Chem 301	P Chem I	_____
Chem 201	Organic I	_____		Chem 302	P Chem II	_____
Chem 202	Organic II	_____		Math 251	Calc I	_____
Chem 242	Analysis	_____		Math 252	Calc II	_____

Additional Requirements for the Augustana Major:

Chem 3 _____	One course, either 311 or 341	_____
Chem 3 _____	One course in the range 311-381 or 2 semester hours of 399 (research)	_____

Additional Requirements for the ACS Approved major:

Chem 135 or eqv.	Inorganic Qualitative Analysis or similar intro Inorganic	_____
Chem 311	Advanced Analysis	_____
Chem 341	Advanced Inorganic	_____
Chem 330	Medicinal Chemistry or similar biochemistry course	_____
Chem 3 _____*	One additional advanced course	_____
Phys 221	General Physics I	_____
Phys 222	General Physics II	_____

*may be 3 credit hours of independent study research or, *with prior approval of the Chemistry Department Chair*, may be substituted with an advanced course in Math or Physics.

Students may graduate under the requirements of the catalog in force during the session in which they first enrolled (provided they graduate within six years from the end of that session), or they may graduate under the requirements of the catalog of the session in which they meet graduation requirements. **Make sure to verify the checklist(s) you consult with the catalog you plan to graduate under. The advisor and other personnel of the college will help the student in every way possible to avoid errors, but the student has the final responsibility for satisfying all degree requirements according to the catalog chosen.**

Tracking additional requirements for some professional schools are on the next page.

Students interested in health professions (medical, dental, etc.) will generally need these courses as well. However, requirements are somewhat specific for each profession and for each school. Your advisor will help you tailor your program to fit.

Medicine and Dentistry, in addition to the Chemistry major, usually need:

Biol 120	Biological Principles I	_____		Psyc 110	Self and Others (A3.3)	_____
Biol 121	Biological Principles II	_____		Psyc 125	Life-Span Hum Devel (A1.2)	_____
Biol 233 ¹	Genetics	_____		Psyc 270	Statistics	_____
Biol 234 ¹	Cell Biology	_____		Engl 110	1 st Year Comp (A2.1)	_____
Chem 330 ¹ or Biol 354 ¹	Med & Biol Chem Biological Chemistry	_____		Engl 200	Literary Exper (A3.5)	_____
Phys 221	Gen Phys I	_____		Engl 311 ²	Adv. Comp.	_____
Phys 222	Gen Phys II	_____				_____
		_____				_____
		_____				_____

¹Recommended but not strictly required.
²Required for medical school only.

Pharmacy, in addition to the Chemistry major, usually need:

Biol 120	Biological Principles I	_____		Comm 110	Communication (A2.2)	_____
Biol 121	Biological Principles II	_____		Econ 120	Princ. of Economics I (A3.3)	_____
Biol 150 or 334	Human Anatomy Comparative Anatomy	_____		Psyc 270	Statistics	_____
Biol 250 or 344	Intro Microbiology General Microbiology	_____		Engl 110	1 st Year Comp (A2.1)	_____
Chem 330 ¹ or Biol 354 ¹	Med & Biol Chem Biological Chemistry	_____		Engl 200	Literary Exper (A3.5)	_____
Phys 221 ²	Gen Phys I	_____				_____
Phys 222 ²	Gen Phys II	_____				_____
		_____				_____

¹Recommended but not strictly required.
²Required for medical school only.