

**Department of Biology and Chemistry**  
**Pre-optometry curriculum map - Chemistry Major Track**

*This map is not intended to be a rigid template. but rather a suggested sequence of courses that will fulfill General Education and the chemistry major requirements for the baccalaureate degree. Several first year courses require minimum ACT Composite, Math and/or English scores. You should consult with your academic advisor for course scheduling during the pre-registration period for each semester. Full program and course descriptions, as well as degree requirements, can be found in the 2008-2009 Morehead State University Undergraduate Catalog.*

<b>1<sup>st</sup> Semester Freshman</b>	<b>2<sup>nd</sup> Semester Freshman</b>
CHEM 111 Gen. Chem. I	CHEM 112 Gen. Chem. II
Math course (as determined by ACT)**	BIOL 171 Gen. Biology
English 100	CMSP 108 Fund. Of Speech
MSU 101 – Disc. Univ. Life	SCI 110 – Intro. To Scientific Computing
Gen. Ed. Electives (2 courses)	Gen. Ed. Elective (1 course)
17 hours	17 hours

<b>1<sup>st</sup> Semester Sophomore</b>	<b>2<sup>nd</sup> Semester Sophomore</b>
CHEM 326 Organic I	CHEM 327 Organic II
PHYS 201 Elem. Physics I	PHYS 202 Elem. Physics II
BIOL 201 Zoology	BIOL 234 Anat. And Physiology I
English 200	Gen. Ed. Elective (2 course)
14 hours	17 hours

<b>1<sup>st</sup> Semester Junior</b>	<b>2<sup>nd</sup> Semester Junior</b>
CHEM 351 Bioinorganic	CHEM 360 Analytical
BIOL 317 Microbiology	CHEM 301 Biochemistry
BIOL 235 Anat. And Physiology II	CHEM 441 Physical I
Gen. Ed. Electives (2 courses)	Math 353 Statistics
	Gen. Ed. Elective (1 course)
16 hours	16 hours

<b>1<sup>st</sup> Semester Senior</b>	<b>2<sup>nd</sup> Semester Senior</b>
SCI 498 Senior Thesis	SCI 499c Senior Thesis
ESS or PHYS elective	BIOL 380 Cell Biology
BIOL 304 Genetics	CHEM 429 Pharmaceutical Chem.
Electives (2 courses)	Elective (3 course)
14 hours	16 hours

Assumes an integrated science minor.

CHEM 351 is Fall only, CHEM 360 is Spring only.

\*\*Math 175 is required for optometry school. If ACT is too low, additional Math courses will be required before taking MATH 175. This is not taken into account in this schedule.