

Curriculum Map Chemistry Major – Pre-Optometry

NOTE: This curriculum map assumes that students have not transferred in any previously completed college level courses.

All baccalaureate degree seeking students must complete a minimum of 33 hours of general education courses which includes:

FYS 101 – First Year Seminar	ENG 100 – Writing I
MATH 123, 131, 135, 152, 174 or 175*	ENG 200 – Writing II
COMS 108 – Fund. Of Speech Communication	Knowledge – Natural Science (NSC; select 2)
Knowledge – Arts & Humanities (HUM)	Global Cultures – Arts & Humanities (HUM)
Knowledge – Social & Behavioral Sciences (SBS)	Ethics & Civil Engagement – Social & Behavioral Sciences (SBS)

The approved NSC, HUM, and SBS course list is located in the current MSU Undergraduate Catalog.

*If applicable, specific mathematics course required for degree shown below.

FIRST YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code	Credits
	FYS 101 – First Year Seminar	G	3		NSC 1 -BIOL 171 & 171L (Exchange)	P,G,R	4
	ENG 100 – Writing I	P,G	3		CHEM 112/112L or 131/131L	G,R	4
	NSC 2-CHEM 111 & 111L	P,G,R	4		SBS 1 – Knowledge	G	3
	HUM 1 – Knowledge	G	3		MATH 175	G,R	4
	GENERAL ELECTIVE ¹		3				
Total Credit Hours			16	Total Credit Hours			15

SECOND YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code	Credits
	CHEM 326/326L	P,R,U	4		CHEM ELECTIVE (327/327L)	P,R,U	4
	PHYS 201/202A	P,R	4		PHYS 202/202A	P,R	4
	BIOL ELECTIVE (244/244A)	P	4		BIOL ELECTIVE (210/210L)	P	4
	ENG 200 – Writing II	P,G	3		COMS 108	G	3
Total Credit Hours			15	Total Credit Hours			15

THIRD YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code	Credits
	CHEM ELECTIVE (301/301L)	P,R	4		CHEM 360/360L	P,R,U	3
	BIOL ELECTIVE (317/317L)	P,U	4		CHEM 351	P,U	3
	CHEM 441	P	3		BIOL ELECTIVE (245/245A)	P,R,U	4
	SBS 2 – Ethics	G	3		MATH 353	P,R,U	3
	GENERAL ELECTIVE ¹		3				
Total Credit Hours			17	Total Credit Hours			13

FOURTH YEAR COURSE SCHEDULE							
✓	Fall Semester	Code	Credits	✓	Spring Semester	Code	Credits
	PHYS OR ESS elective	P	3		CHEM 499E	P,R,U	3
	BIOL ELECTIVE (304/304L)	P,U	3		BIOL ELECTIVE (380/380L)	P,U	3
	HUM 2 – Global	G	3		CHEM ELECTIVE (429)	P,U	3
	GENERAL ELECTIVES ¹	U	6		GENERAL ELECTIVES ¹		6
Total Credit Hours			15	Total Credit Hours			15

¹Assumes an integrated science minor. When General Electives are to be taken students should consider taking courses for their minor. Students should remember that they must have 43 hours of 300-400 level courses.

²Typically this is MATH 174, but it can be skipped if student is qualified for MATH 175. MATH 175 is required.

Codes

- (P) Pre-Requisite Course(s) must be successfully passed to be eligible to enroll in this course.
- (U) Upper Division Course 300-400 level (you must have 42 hours)
- (R) Required Course, (E) Elective, (S) Supplemental, (G) General Education Course

This curriculum map represents one potential arrangement of the requirements necessary to complete the Chemistry Major – Optometry taking into consideration course sequencing, choice of minor, prerequisites, and professional school requirements. Please note that the curriculum does not take into consideration any required developmental courses or transfer work. If developmental courses are required you may not be able to complete this program in four year period. If you have transfer work please forward all transcripts to the Office of the Register so that equivalences can be made and applied to your program evaluation in a timely fashion. Students should consult with their advisor.