



College of Science, Engineering and Technology

Chemistry

Pre-Medical/Pre-Dental Curriculum

Suggested Curriculum Sequence^a

Freshman Year

First Semester			Hours	Second Semester			Hours
CHE	099	Freshman Orientation	1	CHE	202	General Chemistry and Qualitative Analysis	5
CHE	201	General College Chemistry	5	BIO	222	General Botany ^b	4
BIO	221	General Zoology ^b	3	ENG	102	Composition and Research	3
ENG	101	Composition	3	COM	161	Introduction to Public Speaking	3
MAT	250	Calculus and Analytic Geometry	5				

Sophomore Year

First Semester			Hours	Second Semester			Hours
CHE	312	Organic Chemistry I	5	CHE	320	Organic Chemistry II	3
PHY	130/131	General Physics I	4	BIO	xxx ^b		3-5
CIV	101	World Civilizations & Cultures	3	PHY	132/133	General Physics II	4
CSC	232	Visual Basic I ^c	4	CIV	102	World Civilizations & Cultures II	3

Junior Year

First Semester			Hours	Second Semester			Hours
CHE	305	Analytical Chemistry	5	CHE	540	Fundamentals of Biochemistry II ^d	3
CHE	530	Fundamentals of Biochemistry I ^d	3	BIO	xxx ^b		3-5
BIO	xxx ^b			MAT	135	Introduction to Probability & Statistics ^e	4
HUM	211	The Western Humanities Tradition: Continuity	3				

Senior Year

First Semester			Hours	Second Semester			Hours
BIO	xxx ^b		3-5	CHE	403	Basic Physical Chemistry ^f	5

^aCourses listed satisfy a chemistry premedical or pre dental curriculum, a biology minor, and specific university studies requirements. A baccalaureate degree requires 120 hours, so you will need to take additional courses besides those listed. Additional courses must include three university studies electives that will complete university studies requirements.

^bA biology minor is strongly recommended. BIO 115 and 221 are the recommended basic courses. "BIOxxx" can be almost any biology course at the 300 level or above. Recommended biology courses supporting the premedical/pre dental major include BIO 320, 321, 322, 421, and 300.

^cCourse CSC 136, CSC 145, or PHY 140 may be substituted.

^dRecommended, but not required, for the major. If you do not take CHE 530, you must take an alternate three-hour chemistry course.

^eRecommended for MCAT preparation.

^fCHE 410 may be substituted. If you take CHE 410 (4hr) instead of CHE 403 (5hr), you must get one additional chemistry hour.

sex, disability, age, religion, or marital status in admission to educational programs and activities, or employment practices in accordance with Title VI, Title VII, Title IX, Section 504, and ADA Act. For more information contact Annazette McCane, director of Equal Opportunity; Murray State University; 319 Wells Hall, Murray, KY 42071-3318; telephone (270) 809-3155 (voice) and (270) 809-3361 (TDD).

For More Information Contact:

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