



Major Map: Chemistry BA

Catalog Year: 2009-2010

The following is a sample course of study. It is the Student's responsibility to ensure that all program requirements are met. This guide is not a substitute for academic advisement.

Your path to graduation may vary based on factors such as college credit you earned while in high school, transfer work from other institutions of higher learning and placement in Mathematics. You are responsible for checking prerequisites to any courses.

Course Subject and Title	Hrs.	Can be Upper Division	Transfer Course	Minimum Grade if Required	Date Completed	Final Grade	Pre-requisites met	Additional Critical Tracking Notes
Fall Semester Year 1: 16 hours								
Chemistry 211, Gen Chem I (GER F.2.)	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	*Chem BA freshmen meeting the minimum admission requirements are exempt from First-Level Math (Math 110)
Chemistry 211L, Gen Chem I Lab (GER F.2)	1	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Foreign Language 110, Elementary I—GER C.1.	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
A&S 100 <or> CS 100—GER D.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Math 110, College Alg*—GER B.1. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 1: 16-17 hours								
Chemistry 212R, Gen Chem II (GER F.2.)	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Chemistry 212LR, Gen Chem II Lab (GER F.2)	1	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
First Year Writing—GER A.1.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Foreign Language 120, Elementary II—GER C.1.	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Math 210 or Stat 235—GER B.2.	3-4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 1								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 2: 14 hours								
Chemistry 321, Organic Chem I	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Chemistry 321L, Organic Chem I Lab	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Physics 210, Gen Physics I	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Foreign Language 211, Second Year I—GER C.1.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Sophomore-level Writing—GER A.2.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 2: 14 hours								
Chemistry 322R, Organic Chem II	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take and pass WEPT—GER A.3.
Chemistry 322L, Organic Chem II Lab	1	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Physics 220, Gen Physics II	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Constitution—GER F.1.a. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Oral Argumentation—GER A.5 <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 2								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 3: 15 hours								
Elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Biology 365, Biochemistry I <or> 3XX/4XX Chemistry elective	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Cultural Perspectives—GER C.2. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Philosophy—GER E.2. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Fine Arts—GER F.3a. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 3: 13-16 hours								
Biology 366, Biochemistry II <or> 3XX/4XX Chemistry elective	1-3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Literature—GER E.1. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Soc & Behav Science—GER F.1b. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Humanities—GER F.3b. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Summer Semester Year 3								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 4: 16-17 hours								
Chemistry 341WI, Analytical Chem I (GER A.4.)	4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Apply for graduation. Take the MAPP Exam. Take Chemistry Major Field Exam.
Cluster—GER F.4. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Soc & Behav Science—GER F.1b. <or> other GER	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Chemistry 399, Intro to Research suggested <or> elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 4: 12-17 hours								
Elective hours	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3-5	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	

*The above degree plan is for a student who is not also Pre-Medical or Pre-Dental. Please see advisor for those plans.



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Non-course requirements

Written English Proficiency Test (WEPT)
University exit exams (MAPP and Chemistry Major Field)

Met

The School reserves the right to make changes in courses, degree requirements and course schedules without notice.

Students are expected to maintain a quality of achievement significantly above minimum UMKC standards for degree work. Individual student progress will be monitored throughout the program. Satisfactory progress is required of all students for retention in the program. Students are expected to maintain academic standards, perform satisfactorily in courses, refrain from academic dishonesty, comply with the established University and teacher education timetables and requirements, and refrain from unethical or unprofessional behavior or behaviors that obstruct the training process or threaten the welfare of the student or others. Other circumstances involving student behavior will be addressed by the faculty on an individual basis.

Graduation Requirements Summary:

Total Hours (120 minimum)	Total Upper-level (300/400) Hours (36 minimum)	Final Consecutive Hours at UMKC (30 hours minimum)	Major GPA (2.0 minimum)	University of Missouri GPA (2.0 minimum)

All students completing a Bachelor of Arts or a Bachelor of Science in the College of Arts and Sciences must successfully complete the following requirements in order to graduate:

Please see this website for a detailed listing of approved courses to fulfill the following General Education Requirements (GER):

<http://www.umkc.edu/catalog/2008-09/undergraduate/pg454.html>

A. Communication (12 credit hours)

1. First Year Writing course
2. Sophomore-level Writing Intensive course
3. Passage of the UMKC [Written English Proficiency Test \(WEPT\)](#), the pre-requisite for any Junior/Senior-level (300/400) Writing Intensive course
4. Junior/Senior-level (300/400) Writing Intensive (WI) course
5. Oral argumentation course

B. Mathematical, Symbolic and Logical Reasoning (6 credit hours minimum)

1. First-level Mathematics course or demonstrated competency equivalent to four units (years) of high school math, beginning with Algebra I or higher
2. Second-level Mathematics course requiring extensive use of mathematical, symbolic or logical reasoning

C. Foreign Language and Culture (16 credit hours)

1. Three semesters of the same foreign language, required for all B.A. degrees (but not for B.S. degrees, as of Spring 2002)
2. Cultural Perspectives of an interdependent global environment

D. Computer and Information Technology (3 credit hours)

Competence equivalent to a programming course or software application course that includes substantial computer experience

E. Literature and Philosophy (6 credit hours)

1. Literature course
2. Philosophy course

F. Distribution Requirements for General Education

1. Social and Behavioral Sciences (three courses, 9 hours), chosen from at least two different departments:
 - a. Constitution Requirement—One course covering the United States Constitution and the Missouri State Constitution
 - b. Distribution Electives—Two courses from the social and behavioral sciences
2. Physical & Biological Sciences (two courses, 8 hours minimum, including one lab component)
3. Humanities and Fine Arts (two courses, 6 hours):
 - a. Fine Arts course
 - b. Humanities course
4. Interdisciplinary Cluster Course (one course, 3 hours). Every student is required to complete a junior/senior interdisciplinary cluster course.

A maximum of 3 hours of one-credit activity courses in physical education may be applied toward the 120 total minimum

All students completing a Bachelor of Arts degree in Chemistry must meet the following conditions:

- No more than three hours total in CHEM 395, CHEM 399, CHEM 495 and CHEM 499 may be used in meeting the major course requirements.
- CHEM 320 and CHEM 321 may not both be counted toward the required number of credit hours. (CHEM 321 + CHEM 322R and CHEM 320 + CHEM 322R are both acceptable combinations for meeting, in part, the bachelor of arts departmental course requirements, although the CHEM 320 + CHEM 322R combination is not preferred. The combinations CHEM 320 + CHEM 321 and CHEM 320 + CHEM 321 + CHEM 322R are not acceptable.)
- Similarly, either CHEM 330-or- the combination CHEM 431 + CHEM 432 is acceptable, but the combination CHEM 330 + CHEM 431 + CHEM 432 is not acceptable.
- All majors must receive a C- or better in all chemistry courses with an overall chemistry GPA of 2.0 for graduation.
- A minimum grade of C- is required for all prerequisite courses (including physics and mathematics courses). In exceptional cases, students may receive written consent of the instructor and the Chemistry Undergraduate Adviser to waive this requirement.
- Each chemistry major must be advised by the Chemistry Undergraduate Adviser every semester.
- For BA majors, a minimum of 12 credit hours in the Department of Chemistry at UMKC of which 9 out of the 12 hours must be at the 300/400 level is required for the completion of the degree. While credit for Biochemistry (LS BIOL 341, 365, or 366) may be used towards meeting major requirements, it does not count towards meeting the residency requirement.