



## Major Map: B.A. Chemistry/M.D.

Catalog Year: 2011-2012

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 slightly 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.	Transfer Course	Minimum Grade if Required	Date Completed	Final Grade	Additional Critical Tracking Notes
<b>Transfer Credits</b>						
CHEM 211 - General Chemistry I	4	<input type="checkbox"/>	C-			AP or transfer credit
CHEM 212L – General Chemistry I Lab	1	<input type="checkbox"/>	C-			AP or transfer credit
CHEM 212R - General Chemistry II	4	<input type="checkbox"/>	C-			AP or transfer credit
CHEM 212LR – General Chemistry II Lab	1	<input type="checkbox"/>	C-			AP or transfer credit
Math 200 or higher or PHIL 222	3-4	<input type="checkbox"/>				AP or transfer credit; PHIL 222 can not be used for both Math requirement and Philosophy requirement for BA General Education Requirements
FOR LANG 110 – Elementary Foreign Language I	3-5	<input type="checkbox"/>				Students exempt with 2 years of same language in high school
FOR LANG 120 – Elementary Foreign Language II	3-5	<input type="checkbox"/>				Students exempt with 4 years of same language in high school
PHYSICS 210 - General Physics I	4	<input type="checkbox"/>	C-			AP or transfer credit
PHYSICS 220 - General Physics II	4	<input type="checkbox"/>				AP or transfer credit
ENG 110 – English Composition I	3	<input type="checkbox"/>				Students exempt with ACT English subscore of 30 or above or SAT Verbal subscore of 690 or above
<b>Fall Semester Year 1:</b>						
LS ANAT 119 - Human Biology (Anatomy)	3	N/A				
LS ANAT 119L - Human Biology (Anatomy) Lab	1	N/A				
MED 9110 - Fundamentals of Medicine I	5	N/A				
MED 9115 - Medical Terminology	1	N/A				
MED 9119 - Learning Basic Medical Sciences	1	N/A				
PSY 210 - General Psychology	3	<input type="checkbox"/>				
FOR LANG 211 Intermediate Foreign Language	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
BA General Education Requirement: Humanities & Fine Arts ART HIST 110 or 110P, THEA 130 or 210, CONS 120 or 120N, or ENV DESIGN 110	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
<b>Spring Semester Year 1:</b>						
CHEM 320 - Organic Chemistry	4	N/A				
CHEM 320L - Organic Chemistry Lab	1	N/A				
LS MICRO 121 - Human Biology III (Microbiology)	3	N/A				
LS MICRO 121L - Human Biology III (Microbiology) Lab	1	N/A				
MED 9120 - Fundamentals of Medicine II	5	N/A				
SOC 101 – Sociology An Introduction	3	<input type="checkbox"/>				
ENG 225-English Composition II	3	<input type="checkbox"/>				
WEPT Test or ENG 299		N/A				Student is exempt from ENG 299 after successful completion of WEPT test
<b>Summer Semester Year 2:</b>						
Writing Intensive Requirement: Chem 341WI - Analytical Chemistry	4	N/A				Successful completion of WEPT test or ENG 299 needed to enroll in Writing Intensive course
BIO 202 – Cell Biology	3	N/A				
MED 9221 – Hospital Team Experience	1	N/A				
<b>Fall Semester Year 2:</b>						
BMS 9265 - Human Biochemistry	5	N/A				
BIO 206 - Genetics	3	N/A				
SOC 211 - Sociology Life Cycles	3	N/A				



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MED 9210 - Fundamentals of Medicine III	5	N/A				
BA General Education Requirement: Cultural Perspectives Course HIST 201, 202, 206, 208; GEO 200 or 202, SOC/ANTH 103; POL SCI 220. ECON 412, Art Hist 315, or UPD 260	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
BA General Education Requirement: Constitution Requirement History 101, 102. 360R, POL SCI 210, CJC 320	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
<b>Spring Semester Year 2:</b>						
BMS 9296 - Human Structure Function I	7	N/A				Must have a 2.8 Science GPA to begin the Human Structure Function Series
BMS 9297 - Human Structure Function II	6	N/A				
BMS 9298 - Human Structure Function III	5	N/A				
MED 9220 - Fundamentals of Medicine IV	5	N/A				
<b>Summer Semester Year 3:</b>						
BMS 9299 - Human Structure Function IV	4	N/A				
MED 9310 - History of Medicine	1	N/A				
MED 9390 - Clinical Correlations	4	N/A				
<b>Fall Semester Year 3:</b>						
BMS 9310 - Medical Microbiology	6	N/A				
BMS 9311 - Medical Neurosciences	9	N/A				
MED 9380 - Clinical Skills	5	N/A				
MED 9383 - Continuing Care Clinic I	0	N/A				
MED 9385 - Introduction to Pharmacology (online course)	2	N/A				
<b>Spring Semester Year 3:</b>						
MED 9312 - Pathology I	8	N/A				
MED 9313 - Pathology II	12	N/A				
MED 9383 - Continuing Care Clinic I	5	N/A				
MED 9386 - CUES: Interdisciplinary Patient Care: Healing	3	N/A				
<b>Year 4 Campus:</b>						
BA General Education Requirement: Humanities & Fine Arts One 3-hour or greater course from Art, Art History, Communication Studies, English, Environmental Design, Foreign Language, Humanities, Philosophy, or Theatre (can not be used to satisfy more than one requirement)	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
BA General Education Requirement: Literature CLASSICS 210, 319 ENG 205, 207, 213, 214, 215, 241, 311, 317, 319, 321, 323, 325, 326, 327, 331, 333, 356; W. LIT 210, 220 FRENCH 301, 303, 304 GERMAN 301, SPAN 301, 303, 304, 373, 374, 401, 402, or HUMN 203P	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
BA General Education Requirement: Philosophy PHIL 210, 221, 222 or HUMN 106P (PHIL 222 can not be used for both Math requirement and Philosophy requirement)	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
BA General Education Requirement: Cluster Course Specially designated courses	3	<input type="checkbox"/>				Students have some flexibility in the placement of BA Gen. Ed. Requirements in Fall or Spring Year 1, Summer or Fall Year 2, & Year 4 Campus Semester
CHEM 300/400 Chemistry Electives	3	<input type="checkbox"/>				Student is concurrently taking Clinic and appropriate PPS course while on campus
<b>Year 4</b>						
MED 9401 - Year 4 Internal Medicine Docent Rotation	10	N/A				Students must pass 2 or the following 3 to take Pharmacology: Pathology I & II, Medical Microbiology, Medical Neurosciences
MED 9408 - Pharmacology	10	N/A				
MED 4971 - Family Medicine	5	N/A				
MED 9472 - Behavioral Science	5	N/A				
MED 9482 - Patient Physician Society I	2	N/A				



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MED 9484 – Patient Physician Society II	2	N/A				
MED 9483 - Continuing Care Clinic II	5	N/A				
MED 9485 – Ambulatory Care Pharmacology (online course)	2	N/A				
<b>Year 5</b>						
MED 9501 - Year 5 Internal Medicine Docent Rotation	10	N/A				Students must pass USMLE Step I exam to take Year 5 coursework
MED 9503 – Pediatric Rotation	5	N/A				
MED 9505 – Surgery Rotation	5	N/A				
MED 9506 – Obstetric & Gynecology Rotation	5	N/A				
MED 9570 – Family Medicine Preceptorship	5	N/A				
MED 9571 – Psychiatry Rotation	5	N/A				
MED 9583 - Continuing Care Clinic III	5	N/A				
MED 9585 – Prescribing Special Populations (online course)	2	N/A				
<b>Year 6</b>						
MED 95xx - Medical Humanities Selective	5	N/A				Can be taken in Year 5 or 6
MED 9601 - Year 6 Internal Medicine Docent Rotation	10	N/A				Students must Pass USMLE Step II CK by December 31 and USMLE Step II CS exam by November 30 of last year.
MED 9683 – Continuing Care Clinic IV	5	N/A				
MED 9685 – Safe and Rational Prescribing (online course)	5	N/A				
MED 9678 Emergency Medicine	5	N/A				Clinical Electives must be from three different categories – one of these electives must be categorized as “critical care” Most students have time for additional clinical and/or research electives
MED 98xx-99xx Clinical Elective	5	N/A				
MED 98xx-99xx Clinical Elective	5	N/A				

### Non-course requirements

Written English Proficiency Test (WEPT)  
ETS Proficiency Profile (EPP) exam  
Major Field Exam-Chemistry  
USMLE Step I  
USMLE Step II CK  
USMLE Step II CS

### 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.

All students completing an undergraduate education degree must meet the following conditions in order to graduate and be recommended for graduation or certification:

- 30 hours maximum transfer
- No more than 24 hours earned post high school graduation
- 26 hours of course work in Chemistry required (minimum of 12 hours must be taken at UMKC)

### Academic Advisor:

Years 1 and 2 Academic and Student Affairs Office—School of Medicine

816-235-1344

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