



Major Map: B.A. Biology/M.D.

Catalog Year: 2012-2013

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
Transfer Credits						
CHEM 211 –General Chemistry I	4	<input type="checkbox"/>	C-			AP or transfer credit
CHEM 211L – 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
PHYSICS 210 – General Physics I	4	<input type="checkbox"/>	C-			AP or transfer credit
MATH 210 – Calc I or STAT 235—Elem Statistics	4/3	<input type="checkbox"/>	C-			AP or transfer credit
ENG 110 – English I	3	<input type="checkbox"/>				Students exempt with ACT English subscore of 30 or above or SAT Verbal subscore of 690 or above
Fall Semester Year 1:						
LS ANAT 119 - Human Biology (Anatomy)	3	N/A				
LS ANAT 118L - Introductory Anatomy Lab	2	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				
BIO 108 – General Biology I	3	<input type="checkbox"/>				
BIO 108L – General Biology I Lab	1	<input type="checkbox"/>				
ENG 225 - English II	3	<input type="checkbox"/>				
SOC 101 - Introduction to Sociology	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
Spring Semester Year 1:						
BIO 109 - General Biology II	3	<input type="checkbox"/>				
BIO 109L - General Biology II Lab	1	<input type="checkbox"/>				
BIO 206 – Genetics	3	N/A				
MED 9120 - Fundamentals of Medicine II	5	N/A				
BA General Education Requirement – English, Communication Studies, Foreign Language, or Philosophy 3-hour course	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
PSY 210 - General Psychology	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
WEPT Test or ENG 299		N/A				Student is exempt from ENG 299 after successful completion of WEPT test
Summer Semester Year 2:						
CHEM 320 - Organic Chemistry with Lab	4	N/A				Students must have a 2.8 science GPA and cumulative GPA to promote to Year 2. Transferring in Chemistry I and II places greater emphasis in the GPA on the grades received in Anatomy, Genetics, and other science courses in Year 1.
CHEM 320L – Organic Chemistry Lab	1	N/A				
BIO 202- Cell Biology	3	N/A				
MED 9221 – Hospital Team Experience	1	N/A				
Fall Semester Year 2:						
BMS 9265 - Human Biochemistry	5	N/A				
MED 9210 Fundamentals of Medicine III	5	N/A				
SOC 211- Sociology Life Cycles	3	N/A				
LS MCRB 313 – Microbiology	3	N/A				
LS MCRB 313WL - Laboratory in Microbiology (Writing Intensive)	3	N/A				Successful completion of WEPT test or ENG 299 needed to take Writing Intensive course
Spring Semester Year 2:						
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				
Summer Semester Year 3:						
BMS 9299 – Human Structure Function IV	4	N/A				Must have a 2.8 science GPA and cumulative GPA



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MED 9310 – History of Medicine	1	N/A				to promote to Year 3
MED 9390 - Clinical Correlations	4	N/A				
Fall Semester Year 3:						
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				
Spring Semester Year 3:						
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				
Fall or Spring Semester Year 4 Campus:						
BIOL 300/400 Upper Level Bio Elective	3	N/A				Must have a 2.8 science GPA and cumulative GPA to promote to Year 4. Student is concurrently taking Clinic and appropriate PPS course while on campus.
Biology Synthesis Requirement - BIOL 498 WI Critical Analysis of Biological Issues, LS 490 WI Senior Seminar, LS 499 Undergraduate Research, or LS 497 Special Topics	3	N/A				Successful completion of WEPT test or ENG 299 needed to take Writing Intensive course
BA General Education Requirement - Constitution Requirement Hist 101, 102, or 360 or Pol Sci 210	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 – Art, Art History, Conservatory, or Theatre 3-hour course	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
Year 4						
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 (Fall)	2	N/A				
MED 9484 – Patient Physician Society II (Spring)	2	N/A				
MED 9483 - Continuing Care Clinic II	5	N/A				
MED 9485 – Ambulatory Care Pharmacology (online course)	2	N/A				
Year 5						
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				Must have 2.8 cumulative GPA to promote to Year 5
MED 9505 – Surgery Rotation	5	N/A				
MED 9506 – Obstetric & Gynecology Rotation	5	N/A				Students must complete ETS Proficiency Profile (EPP) exam and Major Field Exam in Biology by the end of Year 5
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				
Year 6						
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				Must have 2.8 cumulative GPA to promote to Year 6
MED 9678 - Emergency Medicine	5	N/A				
MED 98xx-99xx - Clinical Elective	5	N/A				Clinical Electives must be from three of nine different categories – one must be categorized as “critical care” Most students have time for
MED 98xx-99xx - Clinical Elective	5	N/A				



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MED 98xx-99xx - Clinical Elective	5	N/A				additional clinical and/or research electives
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Non-course requirements

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

Met

The School of Medicine 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
- 28 hours of course work in Biology are required in addition to M.D. Requirements

Academic Advisors:

Years 1 and 2 Academic and Student Affairs Office—School of Medicine 816-235-1344
<http://www.med.umkc.edu/>
School of Biological Sciences—Tammy Welchert 816-235-1385
<http://sbs.umkc.edu/>