



Major Map: Mathematics and Statistics BA
Transfer Students
Catalog Year: 2013-2014

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								
First Year Writing—GER A.1.	3	<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"/>	
Math 120, Precalculus (GER B.1.)	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
A&S 100—GER D.	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 1: 15 hours								
Math 210, Calculus I (GER B.2.)	4	<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"/>	
Phys & Biol Science lecture—GER F.2. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Constitution—GER F.1a. <or> other GER	3	<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: 15 hours								
Math 220, Calculus II	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Sophomore-level Writing course—GER A.2.	3	<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"/>	
Phys & Biol Science lecture and lab component—GER F.2. (Physics 240, Physics for Sci and Eng strongly recommended)	5	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 2: 16 hours								
Math 250, Calculus III	4	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Complete the RooWriter Writing Assessment.
Math 301, On Solid Ground: Sets and Proof	3	<input checked="" 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"/>	
Soc & Behav Science—GER F.1b. <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"/>	
Summer Semester Year 2								
May use summer semester to lighten fall and spring course loads.								
Fall Semester Year 3: 15-16 hours								
Math 300, Linear Algebra	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take the EPP exam.
Math/Stat 3xx-4xx Elective	3-4	<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"/>	
Fine Arts—GER F.3a. <or> other GER	3	<input type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 3: 15 hours								
*Math 410, Modern Algebra	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	*See note on Math 410 and 420.
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"/>	
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: 15 hours								
Math 402, Advanced Analysis I	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Apply for graduation. *See note on Math 410 and 420.
*Math 420, Linear Algebra II	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Cluster—GER F.4. <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"/>	
Elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	
Spring Semester Year 4: 12-13 hours								
Math/Stat 3xx-4xx Elective	3-4	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	Take the Math Major Field exam.
Writing Intensive course—GER A.4. (Math 464WI recommended)	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"/>	
Elective hours	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	



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Non-course requirements

- RooWriter Writing Assessment
- ETS Proficiency Profile (EPP) exam
- Major Field (MF) exam

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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 the UMKC General Catalog for a detailed listing of approved courses to fulfill the following General Education Requirements (GER): <http://catalog.umkc.edu/~Catalog/ViewCatalog.aspx?htmlink=true&pageid=viewcatalog&catalogid=98&topicid=111254&topicgroupid=55485>

A. Communication (12 credit hours)

1. First Year Writing course
2. Sophomore-level Writing Intensive course
3. Completion of the RooWriter Writing Assessment, a 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 Mathematics and Statistics must meet the following conditions:

- A math major must satisfactorily complete at least four courses at the 300-level or above in the mathematics department at UMKC.
- *Note on Math 410 and 420: The major requires Math 410 or Math 420. A student may take both, but often one of these is replaced by another Math/Stat 3xx-4xx Elective.
- "Math/Stat 3xx-4xx Elective" refers to any MATH or STAT 300-level or 400-level course. The only 300-level elective which is not already on the map is MATH 345 (Ordinary Differential Equations). All of these electives are each 3 credits except MATH 345 (4 credits). MATH 345 is currently offered every semester (including Summer). Many other electives are only offered Fall or Spring. MATH 464WI (History of Math) is an elective which also satisfies a gen-ed Writing Intensive requirement.