

# College of Arts and Science: Graduation Plan for Bachelor of Arts in Mathematics

You may file a Graduation Plan in Math after completion of English 1000 and Math 2300. You must have an overall GPA of 2.5 or above, and a GPA in Math courses used for the degree of 2.5 or above. All Math courses used for the major must be passed with a C- grade or above.

Name (Last, first): \_\_\_\_\_

Pawprint: \_\_\_\_\_

Student Number: \_\_\_\_\_

Expected Graduation Semester: \_\_\_\_\_

Date: \_\_\_\_\_

Check here if you are seeking a B.A. in Mathematics with Departmental Honors

## Required Math Courses

Course No.	Course Title	Cr. hrs.	Course No.	Course Title	Cr. hrs.
MATH 1500	Calculus I	5	MATH 4100	Differential Equations	3
MATH 1700	Calculus II	5	MATH 4140	Matrix Theory	3
MATH 2300	Calculus III	3	MATH 4700	Adv Calculus of One Real Variable I	3
MATH 3000	Intro to Adv Math	3	MATH 4720	Introduction to Abstract Algebra	3

## 4000 LEVEL MATH ELECTIVES Choose 4 or more courses from the list below (all are 3 credit courses)

Course No.	Course Title	Course No.	Course Title
MATH 4150	History of Mathematics	MATH 4400	Intro to Topology
MATH 4300	Numerical Analysis	MATH 4500	Applied Analysis
MATH 4310	Numerical Linear Algebra	STAT 4760/MATH 4520	Statistical Inference
STAT 4710/MATH 4315	Intro to Mathematical Statistics	MATH 4540	Mathematical Modeling I
STAT 4750/MATH 4320	Intro to Probability Theory	MATH 4590	Math. of Financial Derivatives II
MATH 4330	Theory of Numbers	MATH 4900	Adv Multivariable Calculus
MATH 4350	Intro to Non-Euclidean Geometry	MATH 4920	Intro to Abstract Linear Algebra
MATH 4355	Math. of Financial Derivatives I	MATH 4940	Intro to Complex Variables

Other 4000+ MATH courses as approved by the Undergraduate Mathematics Advisor (MATH 4060/4070/4080 may not be used as Math Electives).

Indicate 4 course numbers for your electives:

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_

## BASIC PROGRAMMING REQUIREMENT (circle one)

INFOTC 1040 (Intro to Problem Solving and Programming), or CMP SC 1050 (Algorithm Design and Programming I).

## ARTS & SCIENCE FOUNDATION REQUIREMENTS

Please see <http://generaleducation.missouri.edu/courses/> for a searchable web page. You may check which courses are general education courses, and see which College (e.g., A&S), the course is taught in. This information is important for the A&S DEPTH requirement below.

**ENGLISH COMPOSITION REQUIREMENT** You must complete ENGLISH 1000, Exposition and Argumentation.

## FOREIGN LANGUAGE

Check if you are a non-native English speaker, or

Check if you completed 4 years of a foreign language in high school (in this case, no credit hours from that language at the introductory level may be used toward graduation), or

Check if you will complete a Foreign Language at MU, and circle one:

Chinese, French, German, Greek, Hebrew, Italian, Japanese, Korean, Latin, Portuguese, Russian, Spanish.

## SIGNATURES

Student \_\_\_\_\_ Date \_\_\_\_\_

Undergraduate Mathematics Advisor \_\_\_\_\_ Date \_\_\_\_\_

Dean of A & S \_\_\_\_\_ Date \_\_\_\_\_

After filling out this form, have it signed and dated by the Undergraduate Mathematics Advisor (Dustin Belt, 201 Math Sciences Bldg., 573-882-4898). Make two photocopies of the signed form. Then make an appointment to file a grad plan in Math with the A&S Advising Office (107 Lowry Hall, 573-882-6411). Bring all three copies to this appointment to get the Dean's stamp.

Last updated: 4/2018

## ARTS &amp; SCIENCE FOUNDATION REQUIREMENTS (Cont.)

## BREADTH OF STUDY

<p><b>Biological, Physical and Mathematical Sciences:</b> 9 hours combined in at least two of the three categories. At most one course may be a non A&amp;S course. Courses from the Mathematics Department may not be used here.</p> <table border="1"> <thead> <tr> <th>Dept.</th> <th>Course No.</th> <th>Cr. hrs.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Dept.	Course No.	Cr. hrs.										<p><b>Behavioral Sciences:</b> 5 hours. At most one course may be a non A&amp;S course.</p> <table border="1"> <thead> <tr> <th>Dept.</th> <th>Course No.</th> <th>Cr. hrs.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Dept.	Course No.	Cr. hrs.												
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<p><b>Social Sciences:</b> 9 hours. At most one course may be a non A&amp;S course.</p> <table border="1"> <thead> <tr> <th>Dept.</th> <th>Course No.</th> <th>Cr. hrs.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Dept.	Course No.	Cr. hrs.										<p><b>Humanities and Fine Arts:</b> 12 hours from at least 3 different departments. At most one course may be a non A&amp;S course.</p> <table border="1"> <thead> <tr> <th>Dept.</th> <th>Course No.</th> <th>Cr. hrs.</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </tbody> </table>	Dept.	Course No.	Cr. hrs.												
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## DEPTH OF STUDY

<p>9 hours of courses (total) from at least 2 of the 4 categories below. These must be 2000 level (or above) general education courses, and at most one may be taught by a department not in A&amp;S. These courses may also be listed in the BREADTH section. At least one course must be taken at MU.</p> <ul style="list-style-type: none"> <li>• Biological, Physical and Mathematical Science: _____</li> <li>• Social Science: _____</li> <li>• Behavioral Science: _____</li> <li>• Humanities and Fine Arts: _____</li> </ul>
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## AMERICAN HISTORY OR GOVERNMENT REQUIREMENT

See <http://generaleducation.missouri.edu/requirements/> for courses available. This course may also be listed as a Social Science BREADTH and/or DEPTH course.

MO gov't course: \_\_\_\_\_

## A&amp;S DIVERSITY REQUIREMENT (DI)-For students beginning college Fall 2017 or later

See <https://coas.missouri.edu/diversity-intensive-course-list> for courses available. This course may also be listed as a BREADTH and/or DEPTH course.

DI course: \_\_\_\_\_

## ADDITIONAL A&amp;S AND MU REQUIREMENTS

- Writing Intensive requirement: You must have two WI courses. Math 3000 will be your WI course in your major. The other may be anywhere in the curriculum (e.g., a course satisfying your BREADTH requirement). Please see <http://generaleducation.missouri.edu/requirements/writing.php> for more information.
- 30 of the last 36 hours must be taken as MU courses.
- GPA requirements for graduation: A 2.0 cumulative, in the major, in any minor, in the final 30 hours, and in the final 60 hours.
- 120 hours of degree applicable credits (132 if you are getting a dual degree).
- At least 30 hours numbered 3000 or above.