College of Arts and Science: Graduation Plan for Bachelor of Science 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.S. in Mathematics with Departmental Honors Required Math Courses Course Title Course No. Course Title Cr. hrs. Course No. Cr. hrs. MATH 1500 Calculus I MATH 4100 Differential Equations 5 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 3 MATH 4720 MATH 3000 Intro to Adv Math Introduction to Abstract Algebra 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 4372 Models for Life Contingencies II MATH 4300 Numerical Analysis MATH 4400 Intro to Topology MATH 4310 Numerical Linear Algebra MATH 4500 Applied Analysis STAT 4710/MATH 4315 Intro to Mathematical Statistics STAT 4760/MATH 4520 Statistical Inference STAT 4750/MATH 4320 Intro to Probability Theory MATH 4540 Mathematical Modeling I MATH 4330 Theory of Numbers MATH 4590 Math. of Financial Derivatives II Intro to Non-Euclidean Geometry MATH 4350 MATH 4900 Adv Multivariable Calculus MATH 4355 Math. of Financial Derivatives I MATH 4920 Intro to Abstract Linear Algebra MATH 4370 Interest Theory MATH 4940 Intro to Complex Variables MATH 4371 Models for Life Contingencies I Other 4000+ MATH courses as approved by the Undergraduate Mathematics Advisor (MATH 4060/4070/4080/4510 may not be used as Math Electives). Indicate 4 course numbers for your electives: ______ 2. _____ 3. _____ 4. _____ RELATED FIELD COURSES A minimum of 13 hours (total) from the two groups below. You must have at least one course in each group. Group 1 (Science): BIO_SC 1500 (General Biology), CHEM 1320 (College Chemistry I), CHEM 1330 (College Chemistry II), PHYSCS 2750 (University Physics I), PHYSCS 2760 (University Physics II) The Bio and Physics courses are 5 credits each. Chem 1320 and 1330 are 4 credits each. Group 1 courses (Dept and Number): Group 2: 4000 level courses in Statistics and/or Computer Science You may use one course cross-listed in Math and Statistics to count as both a Group 2 course and as a 4000 level Math elective. Course No. | Course Title Dept. Cr. hrs. BASIC PROGRAMMING REQUIREMENT (circle one) INFOTC 1040 (Intro to Problem Solving and Programming), or CMP SC 1050 (Algorithm Design and Programming I). **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: 9/2018

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 ENGLSH 1000, Exposition and Argumentation.

FOF	REIGN LAN	GUAGE OR	ALTERNATIVE You m	ay comp	ete this require	ement in one of four way	rs: being a	non-native I	English
-			ool, complete a language sequ aglish speaker, or	ence at l	MU, or complet	te the Foreign Language	Alternative	s.	
☐ Check if you completed 4 years of a foreign language in high school (in this case, no credit hours from that language at the									
intro	ductory level n	may be used tow	ard graduation), or						
		-	eign Language at MU, an						
Chin	ese, French, Ge	erman, Greek, H	lebrew, Italian, Japanese,	Korear	i, Latin, Port	tuguese, Russian, Spa	$_{ u} \mathrm{nish},$		
or	1	1		(10.1	C				1
		-	eign Language Alternative	`					at the
2000		evel or above — this must be approved by the Undergraduate Mathematics Advisor). List courses in the							П
	Dept. Course No. Course Title								\parallel
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II	Behavioral and Social Sciences: Humanities and Fine Arts:								
II		,	ne behavioral science and	III.		least two different dep	artments.	At most	
II		e. At most one co	ourse may be a non A&S	one		be a non A&S course.			
	Dept.	Course No	Cr. hrs.		Dept.	Course No.	Cr. l	nrs.	
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11		, ,	least 2 of the 3 categories			*	, -		
C	ourses, and at le	east one must be t	aught by a department in A	A&S. Th	ese courses ma	ay also be listed in the l	BREADTI	H section.	
	• Social S	Science:							
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	• Behavio	oral Science:							
	• Humani	ities and Fine A	rts:						
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			OVERNMENT REQU						
			uri.edu/requirements/ fo	r course	s available. T	This course may also b	e listed as	s a Social S	cience
	ADTH and/or I								
A&\$	5 DIVERSIT	Y REQUIRE	MENT (DI)-For stude:	nts be	ginning coll	ege Fall 2017 or la	ter		
	-		ersity-intensive-course-	list for	courses availa	able. This course may a	lso be liste	ed as a BREA	ADTH
	or DEPTH cour								
DI c	course:								
ADI	DITIONAL A	A&S AND MU	J 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.
- $\bullet\,$ 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).