Advising Worksheet (2018-2019 Catalog)
For Mathematics Education Majors

Note that the UM Catalog is the ultimate authority regarding degree requirements. Please bring any mistakes on this worksheet immediately to the attention of the Department of Mathematical Sciences.

Basic Information

Name:		Date:	
Email:		ID#: 790	
Advisor:		Catalog for Graduation:	

(A) General Education & Math-Ed Science Requirements

Group	Recommendation	Actually Taken	Cr.	Term	Grade
I.a	WRIT 101 or 201		cr		
I.b	LIT 110L or 120L (or WRIT 201)		cr		
I.c	M 429	M 429 (required)	3 cr	Spr.	

Groups II and III.b: satisfied with M 171.

Group	Recommendation	Actually Taken	Cr.	Term	Grade
IV. (A)	COMX 111A		cr		
V. (L)	LIT 110L or 120L		cr		
VI. (H)	NASX 105HX		cr		
VII. (S)	PSYX 100S		cr		
VIII. (E)	EDU 407E	EDU 407E (required)	3 cr		
IX. (Y)	HSTA 101H or 102H		cr		
X. (X)	NASX 105HX		cr		

Group XI (N): Need 6 cr. in science N-courses; one course must have a lab. Fulfill together with the **Math-Ed Science Requirement:** Unless completing a ☐ minor or ☐ 2nd major, need 12 cr. from at most 2 of the following areas: Astronomy (ASTR), biology (BIO*), chemistry (CHMY), computer science (CSCI, except CSCI TR*), economics (ECNS), forestry (FORS, WILD), geosciences (GEO), management information systems (BMIS), and physics (PHSX).

Course	Title	Cr.	Term	Grade
		cr		
		cr		
		cr		
		cr		
		cr		

(B) Math Courses

Courses with an asterisk (*) are required for a mathematics teaching minor. **See Part (E) for scheduling recommendations.**

Course	Title	Cr.	Term	Grade
*M 171	Calculus I (or M 181 Honors Calc I)	4 cr		
*M 172	Calculus II (or M 182 Honors Calc II)	4 cr		
*M 221	Introduction to Linear Algebra	4 cr		
*M 301	Math w/ Technology for Teachers	3 cr	Fall odd yr	
*M 307	Intro to Abstract Mathematics	3 cr		
*M 326	Number Theory	3 cr	Spr.	
*STAT 341 §	Intro to Probability and Statistics	3 cr		
M 429	History of Mathematics	3 cr	Spr.	
M 431	Abstract Algebra I	4 cr	Fall	
*M 439	Euclidean & Non-Euclid. Geom.	3 cr	Fall	
*EDU 497.12	Methods: 5-12 Mathematics	4 cr	Fall	
M/STAT	(elective – see Part (C))	cr		

§ If STAT 451 is not the elective course, it can be substituted for STAT 341.

(C) M/STAT Elective

The M/STAT Elective in Part (B) must be one of the following courses: M 273, 311, 325, 361, 362, 381, 412, 414, 432, 440, 445, 461, 462, 472, 473, 485 and STAT 421, 422, 451, 452.

(D) Teacher Licensure Requirements

Course Information	Cr.	Term	Grade
WRIT 101	3 cr		
NASX___ (Recommended: NASX 105HX)	3 cr		
Take after admission to the Teacher Education Program:			
HEE 330, Promoting Well-Being in Classroom P-12	2 cr		
EDU 202, Early Field Experience	1 cr		
EDU 221, Educational Psychology & Measurement	3 cr		
EDU 345, Exceptionality & Classroom Management	3 cr		
EDU 395.11 or 395.12, Clinical Experiences	1 cr		
EDU 407E, Ethics and Policy Issues	3 cr		
EDU 481, Content Area Literacy	3 cr		
EDU 497.12, Methods: 5-12 Mathematics	4 cr		
EDU 494, Seminar: Refl Pract & App Rsrch	1 cr		
EDU 495, Methods: 5-12 Mathematics	14 cr		

The overall cumulative GPA must be at least 2.75.
The overall cumulative GPA for all courses in Part (B) must be at least 2.75.

(E) Scheduling Recommendations

- Because not all courses are offered every semester, and because some courses must be taken before others, carefully plan with your advisor which courses to take when, as soon as you finish Calculus II. It is recommended to use the **Math-Ed Course Planning Guide**.
- It is recommended to take **M 221 before M 307**. But take M 307 early since it is a prerequisite for M 326, 429, 431 and 439, which are not offered every semester.
- It is recommended to take **M 326 before M 431**.

(F) Some Other Important Requirements

- **Traditional Letter Grade Requirement:** All courses listed on this worksheet must be completed with a traditional letter grade of C- or better.
- **Math Residency Requirement:** Among the upper-division M and STAT courses taken in Part (B), at least 4 must be taken at UM-Missoula.
- **Petitions** for substitutions or waivers of departmental requirements must be approved in writing by the Math Department's Associate Chair for the Undergraduate Program; denied petitions can be appealed to the Math Department's Undergraduate Committee.
- **Transfer Courses:** Petitions to substitute transfer courses for upper-division M and STAT courses listed in Part (B) are usually only granted subject to the following requirement: In addition to M 307, the student needs to take at least 6 upper-division M or STAT courses listed in Parts (B) or (C), with at least 3 at the 400-level.

Advising Highlights from the UM Catalog

Here is a small selection of particularly important rules from the 2018-2019 Catalog. For links to the requirements, visit http://hs.umt.edu/math/undergraduate/majors/advising/advising-highlights.php.

Credit Load

The maximum credit load is 21 credits per semester; the minimum full-time load for undergraduate students is 12 credits per semester. To earn 120 credits in 4 years, **students should take about 15-16 credits each semester**.

Requirements for the First Bachelor Degree

- 120 credits total are required for most B.A. degrees.
- **Credit/No Credit Grading** (CR/NCR):
  - A maximum of 18 "credit/no credit" credits are allowed.
  - Courses taken to satisfy General Education Requirements must be taken for traditional letter grade.
  - Courses required for the student's major or minor must be taken for traditional letter grade.
- **Residency Requirements:** Of the last 45 credits required for the degree, at least 30 must be earned from UM-Missoula.
- **Undergraduates in Graduate Courses:** only post-baccalaureates and seniors having a GPA of 3.0 or greater may, with consent of instructor, enroll in 500-level courses (for undergraduate credit).

Graduation:

- You must submit your **Graduation Application** nearly 2 semesters before your expected graduation date.
- Aim high! Look at the rules for **Graduation with Honors or High Honors**.