

Advising Worksheet (2008-2009 Catalog)

Updated with the New Course Numbers

For all Undergraduate Math Majors

(Except Math Ed and the Combined Math/CS Major)

Name: _____ Date: _____

Email: _____ ID: 790- _____

Advisor: _____ Catalog for Graduation: _____

(A) General Education Requirements:

- Fill out a General Education Worksheet.

(B) Non-Math Courses:

- (1) **Either** two courses chosen from CS 101, 131, 132, 201, 207:

<u>Course No.</u>	<u>Name</u>	<u>Credits</u>	<u>Term</u>	<u>Grade</u>
CS _____	_____	()	_____	_____
CS _____	_____	()	_____	_____

or (equivalent of) second semester of UM Foreign language course:

_____	_____	()	_____	_____
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or a second major: _____

- (2) **Science courses:** 18 credits from at most 3 sciences selected from astronomy, biology, chemistry, computer science, economics, forestry, geology, management, microbiology, and physics:

_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____

or a minor: _____ **or** a second major: _____

- (3) **Upper-division writing requirement:** **Either** an upper division general education writing course (e.g., M 429 = MATH 406):

_____	_____	()	_____	_____
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or a senior thesis (M/MATH 499).

(C) Core Math Courses:

	<u>Term</u>	<u>Grade</u>
M 171 = MATH 152 Calculus I	(4)	_____
M 172 = MATH 153 Calculus II	(4)	_____
M 221 = MATH 221 Lin. Alg. (take before M 307)	(4)	_____
M 273 = MATH 251 Multivariable Calculus	(4)	_____
M 300 = MATH 300 Undergrad. Math Seminar	(1)	_____
M 307 = MATH 305 Intro. to Abstract Math	(3)	_____

(D) Option Requirements: If you wish to select an option, check the appropriate box(es) and make sure to choose the courses in **(E)** accordingly. The option requirements are described on the back. Note that it is not required to choose an option.

- Applied Mathematics
- Pure Mathematics
- Combinatorics & Optimization
- Statistics

(E) At Least 6 Additional 300/400 Level Math Courses: Beyond the core math courses in **(C)**, 6 additional 3- or 4-credit M, MATH, or STAT courses numbered 300 or above are required. At least 3 of the 6 must be numbered 400 or above. The following courses do not count: STAT 451, 452 [=Math 444, 445], and courses numbered 390-399 and 490-499. If you want to specialize in one of the options, keep the option requirements in mind.

_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____
_____	_____	()	_____	_____

With the exception of M/MATH 300, all courses listed on this worksheet, including the courses under **(B)**, must be completed with a grade of C- or better. (This is a new requirement beginning with the 2005-2006 Catalog.)

Option Requirements for the B.A. in Mathematical Sciences:

Applied Mathematics:

New Course Numbers:	M 311, 412, 414, and one of M 440, 472. Recommended:	M 381, 485
Old Course Numbers:	MATH 311, 412, 414, and one of MATH 471, 452. Recommended:	MATH 351, 485

Cominatorics & Optimization:

New Course Numbers:	M 361, 362, 485, and one of M 414, 440, STAT 341, or CS 332.
Old Course Numbers:	MATH 381, 382, 485, and one of MATH 414, 471, MATH 341, or CS 332.

Pure Mathematics:

New Course Numbers:	4 courses chosen from M 381, 431, 432, 472, 473.
Old Course Numbers:	4 courses chosen from MATH 351, 421, 422, 452, 451.

Statistics:

New Course Numbers:	STAT 341, 421, 422.	Additional mathematics and statistics courses chosen with the advisor.
Old Course Numbers:	MATH 341, 441, 442.	

Advising Guidelines from the 2008-2009 UM Catalog

References to Sections in the Online Catalog: **APP** = “Academic Policies and Procedures”,
GUR = “General University Requirements”, **RG** = “Requirements for Graduation”.
These sections are linked from the chapter “Academic Information”.

Credit Load: maximum 21 per semester; minimum full-time load 12 per semester (APP; p. 24)

Requirements for a First Bachelor Degree (APP, GUR, RG; pp. 21-33)

- 120 credits total: (RG; p. 26)
 - Minimum of 39 credits in courses numbered 300 or above (RG; p. 26)
 - Maximum of 60 credits in major can be counted toward degree (GUR; p. 32)
- GPA of at least 2.00 in all work attempted in major (GUR; p. 32)
- **Courses taken to satisfy the requirements of the major must be completed with a grade of C- or better.** (GUR; p.32)
- Maximum of 18 “credit/no credit” credits (see APP (or p. 22) for limitations). Note: With the exception of Math 300, all math courses counting towards a math major or minor must be taken for traditional letter grade.
- General education requirements (GUR; pp. 27-31) (transfer students: search for “General Education for Transfer Students” in GUR, or see pp. 31-32)
- Residency requirements (i.e., minimum requirements on the number of credits earned at UM Missoula) (RG; p. 26)
- Students must declare a major before completing 45 credits or after 3 semesters, whichever occurs first. (GUR; p. 32)
- 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. (APP; p. 24)

Graduation:

- Must apply for degree candidacy nearly 2 semesters before your expected graduation date (RG; p. 25)
- Graduation with Honors or High Honors: See requirements in RG (p. 26) and talk to your advisor.