

Math Major/Minor Advising Checklist - Fall 2013

Name: _____

Advisor: _____

Date First Advised: _____

General Requirements - Math Major

A math major entails completion of three tiers of requirements: the University Studies Program (USP), the A&S Extended Core, and Math Departmental requirements. See the reverse side of this checklist for USP and A&S Extended Core requirements.

At the departmental level, a math major requires completion of a minimum of 47 credits from the following 4 categories:

- (1) Math Core - Calculus I, Calculus II, Calculus III, Elementary Linear Algebra, Applied Differential Equations I and the Math Major Seminar,
- (2) 3 Transition Courses - Elementary Analysis, Algebra I, Introduction to Scientific Computing,
- (3) 2 Depth Courses - a 2-course sequence chosen from one of Analysis, Algebra or Applied Mathematics, and
- (4) 12 additional hours of Breadth - 4 3000+ level Math courses.

All courses must be completed with a grade of C or better.

General Requirements - Math Minor

A math minor requires completion of a minimum of 29 credits from the following 3 categories:

- (1) Math Core - Calculus I, Calculus II, Calculus III, Elementary Linear Algebra, Applied Differential Equations I and the Math Major Seminar,
- (2) 1 Transition Course - one of Elementary Analysis, Algebra I or Introduction to Scientific Computing,
- (3) 6 additional hours of Depth/Breadth - typically 2 Math 3000+ level courses (hours must be from Math)

All courses must be completed with a grade of C or better. If the student's primary major is in A&S, at least 12 credit hours must be from courses not counted toward that major.

MATH MAJOR
Calculus (12 hours)
Math 2200
Math 2205
Math 2210
Linear Algebra (3 hours)
Math 2250
Differential Equations (3 hours)
Math 2310
Math Major Seminar (2 hours)
Math 2800
Transition Courses (9 hours)
Math 3205
Math 3340
Math 3500
Depth Sequence (6 hours)
<i>D2</i>
<i>D3</i>
Breadth Courses (12 hours)
<i>B1</i>
<i>B2</i>
<i>B3</i>
<i>B4</i>

MATH MINOR
Calculus (12 hours)
Math 2200
Math 2205
Math 2210
Linear Algebra (3 hours)
Math 2250
Differential Equations (3 hours)
Math 2310
Math Major Seminar (2 hours)
Math 2800
Transition Course (3 hours)
<i>T</i>
Depth/Breadth Courses (6 hours)
<i>D2/B2</i>
<i>D3/B3</i>

University Studies

Intellectual Community: 1 course, 1-3 credits

(I) Develop critical thinking skills and explore an area of interest

Informational Literacy: 1 course, may be inbedded

(L) Learn to efficiently locate, evaluate and use information

Writing: 3 courses, 9 credits

(WA) English 1010 or 1000 must be completed with grade of C or better

(WB) One mid-level writing or writing intensive course (2000-4999)

(WC) One upper-level writing or writing intensive course (3000-4999)

Quantitative Reasoning: 2 courses, 6-8 credits

(QA) Basic Mathematics

(QB) Mathematical Reasoning

Natural Sciences: 2 courses, 6-8 credits

(S) Integrated Science

(SB) Biological Science

(SP) Physical Science

(SE) Earth Science

Cultural Context: 3 courses, 9 credits

(C) Integrated Cultural Context

(CH) Humanities

(CS) Social Sciences

(CA) Arts

* At least one course from each of three different categories

Oral Communication: 1 course, 3 credits

Oral communication course

U.S. & Wyoming Constitutions: 1 course, 3 credits

(V) POLS 1000, Econ 1200, HIST 1211, HIST 1251

Global Awareness: 1 course, 3 credits

(G) Acquire knowledge of the global organization and interdependence of human societies

Diversity: 1 course, 1-3 credits

(D) Explores the complexity of cultural identities in the U.S.

Physical Activity: 1 course (2 parts), 1 credits

(P) PEAC 1001 or equivalent

A&S Extended Core

Science: 2 courses, 4-hour laboratory science (see above)

Foreign Language: 2 courses, 8 credits

Two semesters of a single foreign language, American Sign Language, or satisfactory score on one of the following: UW Departmental Exam, CLEP, Advanced Placement Exam.

Non-Western Perspectives: 1 course, 3 credits

Upper Division: 9 courses; must be courses outside the major

Complete 9 credits at 3000-4000 level outside the major. This requirement may not be fulfilled with courses that are cross-listed with the department of the student's major nor can they be core components of the USP requirements.

Intellectual Community				
Dept	Course No.	Hours	Sem	
I				
Informational Literacy				
Dept	Course No.	Hours	Sem	
L				
Writing				
Dept	Course No.	Hours	Sem	
WA				
WB				
WC				
Quantative Reasoning				
Dept	Course No.	Hours	Sem	
QA				
QB				
Science				
Dept	Course No.	Hours	Sem	
S				
S				
Cultural Context				
Dept	Course No.	Hours	Sem	
C				
C				
C				
Oral Communication				
Dept	Course No.	Hours	Sem	
O				
US/WY Constitutions				
Dept	Course No.	Hours	Sem	
V				
Global Awareness				
Dept	Course No.	Hours	Sem	
G				
Diversity				
Dept	Course No.	Hours	Sem	
D				
Physical Activity & Health				
Dept	Course No.	Hours	Sem	
P				
Foreign Language				
Dept	Course No.	Hours	Sem	
Non-Western Perspective				
Dept	Course No.	Hours	Sem	
Upper Division Electives				
Dept	Course No.	Hours	Sem	