

Prior to 201410
Prior to Fall 2013

Math Major Advising Checklist

Name: _____

Advisor: _____

Date First Advised: _____

General Requirements

The general requirements for a math major are listed in the checklist. A student must complete 48 hours of course work. Requirements for specific concentrations like the Graduate School track, Applied Mathematics or Secondary Education can be found on the website.

Concurrent Major

A concurrent major is a second major pursued alongside the primary major. The majors can be in one or more colleges. One degree is awarded from the college of the primary major. University Studies requirements need only be satisfied once. Concurrent majors must satisfy the same set of general requirements as a math major.

Dual Degree

A dual degree is a second degree pursued in either the same college as the first degree or in another college. University Studies requirements need only be satisfied once. Students pursuing a dual degree must satisfy the same set of general requirements as a math major. Students must meet all the college and major requirements for both majors. Students must complete at least 30 credit hours (minimum 12 upper-division hours) beyond the credit hours required for the degree with the smallest number of credit hours required. An academic advisor for each degree is required.

Second Bachelor's Degree

Students pursuing a second bachelor's degree must earn a minimum of 30 additional credit hours from UW, 12 of which must be upper-division. A student must also fulfill all of the college and major requirements, however, University Studies requirements only need to be met once if the first degree is from UW.

Minor in Math

A student must complete 30 hours of course work. At least 12 credit hours must be from math courses which do not count towards the students's primary major.

Math Content Electives

Statistics 4220
 Computer Science 4100
 Chemical Engineering 4090
 Petroleum Engineering 4010
 Physics 4410
 Physics 4420

Philosophy 3420
 Philosophy 4420
 Economics 4340

MATH MAJOR	
Calculus (12 hours)	
Math 2200	
Math 2205	
Math 2210	
Linear Algebra (3 hours)	
Math 2250	
Math Majors Seminar (2 hours)	
Math 2800 or 3800	
Programming (4 hours)	
COSC 1010 or 1030	
Upper-division Math Electives (21 hours)	
Elective 1	
Elective 2	
Elective 3	
Elective 4	
Elective 5	
Elective 6	
Elective 7	
Upper-division Math Content Electives (6 hours)	
Elective 1	
Elective 2	
MATH MINOR	
Calculus (12 hours)	
Math 2200	
Math 2205	
Math-2210	
Linear Algebra (3 hours)	
Math 2250	
Math Majors Seminar (2 hours)	
Math-2800-or 3800	
Programming (4 hours)	
COSC 1010 or 1030	
Math Electives (9 hours)	
Elective 1	
Elective 2	
Elective 3	

University Studies

Intellectual Community: 1 course, 1-3 credits

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

Information Literacy: 1 course, may be embedded

(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-division writing or writing intensive course (3000-4999)*

Quantitative Reasoning: 2 courses, 6-8 credits

(QA) *Basic Mathematics*

(QB) *Mathematical Reasoning*

Natural Sciences: 2 courses, 4-8 credits

(S) *Integrated Science*

(SB) *Biological Science*

(SP) *Physical Science*

(SE) *Earth Science*

* *A&S core requires two 4-credit laboratory courses with two different prefixes.*

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

(O) *Oral communication course*

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

(V) *POLS 1000, ECON 1200, HIST 1211, HIST 1221, HIST 1251*

Global Awareness: 1 course, may be embedded

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

U.S. Diversity: 1 course, may be embedded

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

Physical Activity & Health: 1 course (2 parts), 1 credit

(G) *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 credits; 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	Semester
Information Literacy			
Dept	Course No.	Hours	Semester
L			
Writing			
Dept	Course No.	Hours	Semester
WA			
WB			
WC			
Quantitative Reasoning			
Dept	Course No.	Hours	Semester
QA			
QB			
Science			
Dept	Course No.	Hours	Semester
S			
S			
Cultural Context			
Dept	Course No.	Hours	Semester
C			
C			
C			
Oral Communication			
Dept	Course No.	Hours	Semester
O			
US/WY Constitutions			
Dept	Course No.	Hours	Semester
V			
Global Awareness			
Dept	Course No.	Hours	Semester
G			
U.S. Diversity			
Dept	Course No.	Hours	Semester
D			
Physical Activity & Health			
Dept	Course No.	Hours	Semester
P			
Foreign Language			
Dept	Course No.	Hours	Semester
Non-Western Perspective			
Dept	Course No.	Hours	Semester
Upper Division Electives			
Dept	Course No.	Hours	Semester