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.
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
(SA) Integrated Science
(SB) Biological Science
(SP) Physical Science
(SE) Earth Science

Cultural Context: 3 courses, 9 credits
(CA) Integrated Cultural Context
(CHA) Humanities
(CSA) Social Sciences
(CSA) 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, CLEF, 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.