



# WEBER STATE UNIVERSITY

## MATH TEACHING MAJOR

### COURSE REQUIREMENTS

#### MATHEMATICS TEACHING MAJOR BS

<b>Program Prerequisite</b>	Mathematics Teaching major must meet the Teacher Education admission and licensure requirements (see Teacher Education Department).
<b>Advisement and Admission Requirements</b>	Mathematics Teaching majors must meet the Teacher Education admission and licensure requirements. They should meet with an assigned advisor at least once a year to help plan programs and check on progress. Declare your program of study with the Mathematics Department.
<b>Grade Requirement</b>	A grade of "C" or better in courses required for this major ("C-" is not acceptable). Mathematics Teaching majors must achieve an overall GPA of 3.00 for admission to the Teacher Education program.
<b>Credit Hour Requirements</b>	A Total of 120 credit hours are required for graduation. 53-58 of these are required within the major. At least nine credit hours of upper division mathematics must be completed at WSU.
<b>Minor Requirement</b>	No minor required.

#### Major Course Requirements for Mathematics BS Degree

##### Mathematics Courses Required (48 credit hours)

- **MATH 1210** Calculus I (4) Su, F, Sp (Prerequisite - [MATH 1050 and MATH 1060] or MATH 1080)
- **MATH 1220** Calculus II (4) Su, F, Sp (Prerequisite - MATH 1210)
- **MATH 2120** Euclidean Geometry (3) F (Prerequisite - MATH 1210)
  - **Starting Fall 2018 the required course will be MTHE 2120 Geometry from a Teaching Perspective**
- **MATH 2210** Calculus III (4) Su, F, Sp (Prerequisite - MATH 1220)
- **MATH 2270** Elementary Linear Algebra (3) F, Sp (Prerequisite - MATH 1220)
- **MATH 2280** Ordinary Differential Equations (3) F, Sp (Prerequisite - MATH 1220)
  - **or MATH 3550** Intro to Math Modeling (3) F (Prerequisite - MATH 1200 and [MATH 2270 or 2280])
- **MATH 3110** Foundations of Algebra (3) Sp (Prerequisite - MATH 1210)
  - **or MATH 4110** Modern Algebra I (3) F odd years (Prerequisite - MATH 2270)
- **MATH 3120** Foundations of Euclidean & non-Euclidean Geometry (3) Sp (Prerequisites - MATH 1220 and MATH 2120)
- **MATH 3160** Number Theory (3) Sp (Prerequisite - MATH 1210)
- **MATH 3410** Probability and Statistics I (3) F (Prerequisite - MATH 1220)
- **MATH 4210** Intro Real Analysis I (3) F (Prerequisite - MATH 2210 and MATH 2270)
- **MTHE 3010** Methods and Technology for Teaching Secondary Math (3) Sp (Prereq - MATH 1220 and two UD MATH)
- **MTHE 3060** Probability and Statistics from a Teaching Perspective (3) Sp (Prerequisite - MATH 1210)
- **MTHE 4110** Algebra from a Teaching Perspective (3) F (Prerequisite - MATH 3110)
- **One upper division MATH course (3000 and above) not otherwise required (3)**

##### Support Courses Required (5-10 credit hours)

- **\*PHYS PS2210** Physics for Scientists & Engineers I (5) F, Sp (Co-requisite - MATH 1210)
  - **or \*CHEM PS1210 & CHEM 1220** Principles of Chemistry I & II (5 each) Su, F, Sp (Prerequisites - [MATH 1010 for CHEM 1210] and [CHEM 1210 for CHEM 1220])

\* These courses will also satisfy general education requirements.

Students must also complete the requirements for a secondary education licensure as determined by the Jerry and Vickie Moyes College of Education. (McKay Education Building, room 224, 801-626-6309)

#### WEBER STATE UNIVERSITY MATHEMATICS DEPARTMENT

801-626-6095 office 801-626-6427 fax math@weber.edu www.weber.edu/mathematics