# Mathematics Teaching Major BS

<table>
<thead>
<tr>
<th>Program Prerequisite</th>
<th>Mathematics Teaching major must meet the Teacher Education admission and licensure requirements (see Teacher Education Department).</th>
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<tbody>
<tr>
<td>Advisement and Admission Requirements</td>
<td>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.</td>
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<td>Grade Requirement</td>
<td>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.</td>
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<td>Credit Hour Requirements</td>
<td>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.</td>
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<td>Minor Requirement</td>
<td>No minor required.</td>
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## 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)