UNIVERSITY STUDIES - BS, MATHEMATICS FOR TEACHING CONCENTRATION

The BS in University Studies, Mathematics for Teaching area of concentration consists of courses that are designed to give students desiring a secondary-school teaching credential a solid foundation in mathematics. In particular, the courses chosen encompass the mathematical areas tested by the State of Texas and TExES secondary mathematics examination. These are the courses currently required for the secondary mathematics teaching field at Texas A&M University.

Program Requirements

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Semester Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 220</td>
<td>Foundations of Mathematics ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 375</td>
<td>Intermediate Real Analysis ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 376</td>
<td>Intermediate Abstract Algebra ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 403</td>
<td>Mathematics and Technology ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 467</td>
<td>Modern Geometry ¹</td>
<td>3</td>
</tr>
<tr>
<td>STAT 211</td>
<td>Principles of Statistics I ¹</td>
<td>3</td>
</tr>
<tr>
<td>MATH 304</td>
<td>Linear Algebra ¹</td>
<td>3</td>
</tr>
<tr>
<td>or MATH 323 or Linear Algebra</td>
<td></td>
<td></td>
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</tbody>
</table>

University and College Requirements

Communication (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#communication) 6

Mathematics 8

Select one of the following:
- MATH 151 Engineering Mathematics I
- MATH 147 Calculus I for Biological Sciences
- MATH 171 Analytic Geometry and Calculus

Select one of the following:
- MATH 152 Engineering Mathematics II
- MATH 148 Calculus II for Biological Sciences
- MATH 172 Calculus

PHYS 218 Mechanics 4

Life and physical sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#life-physical-sciences) 5

Language, philosophy and culture (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#language-philosophy-culture) ³ 3

Creative arts (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#creative-arts) ³ 3

Social and behavioral sciences (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#social-behavioral-sciences) ³ 3

American history (http://catalog.tamu.edu/undergraduate/general-information/university-core-curriculum/#american-history) ⁶ 6

POLS 206 American National Government ³ 3
POLS 207 State and Local Government ³ 3

Minor 1 15-18
Minor 2 15-18
General Electives ⁴ 19-25

Total Semester Credit Hours 120

¹ Make a grade of ‘C’ or better.
² Select 3 hours from any 200-499 level course.
³ Completion of four semesters of upper-level ROTC may be substituted for three hours of the requirement.
⁴ Electives may be selected from any 100-499 course not used elsewhere, (except ALED 125; ASTR 109/PHYS 109, ASTR 119/PHYS 119; BMEN 101; BUSN 100; ISEN 101; KINE 199; LAND 101; MATH 102-166 (http://catalog.tamu.edu/undergraduate/course-descriptions/math), MATH 304, MATH 309, MATH 311, MATH 367, MATH 368, MATH 375, MATH 376; PHYS 109/ASTR 109, PHYS 119/ASTR 119, PHYS 201, PHYS 202, PHYS 205; PSYC 301; STAT 201, STAT 301-303 (http://catalog.tamu.edu/undergraduate/course-descriptions/stat); STLC 102; URPN 200; WFSC 101).

Maximum of 3 hours of MATH 411 or STAT 414 may be used in this degree program.

Maximum of 3 hours of MATH 417, MATH 437 or CSCE 442 may be used in this degree program.