Teacher Education - MATHEMATICS

Tennessee teaching licensure (Grades 6-12) is available with modifications to the Mathematics track and the King Core, and successful completion of the Secondary Education minor. Licensed teachers in secondary education are in great demand in all fifty states, and the areas of science, mathematics, English as a second language, and foreign languages are considered critical need areas in K-12 public education by all states.

Declaration of the minor and early and frequent advisement is essential to timely completion of degree and licensure requirements. Students seeking teacher licensure will be assigned a secondary education advisor in the Department of Teacher Education, in addition to their major advisor. See the “Admission to the Teacher Education Program” section of this catalog or contact the Certification Advisor in the School of Education for eligibility criteria, admissions procedures, and timeliness.

Core Curriculum Requirements
Mathematics majors seeking teaching licensure should fulfill specified categories of the King Core Curriculum by taking the courses indicated below. See the “The Core Curriculum” section of the catalog for additional details.

**Quantitative Literacy**
MATH 2350
Calculus I ..............................................................................................................4 s.h.

**Literature**
*Choose from the following courses (pair with history)..................4 s.h.*
ENGL 2171
Western Literature I (4 s.h.)
ENGL 2172
Western Literature II (4 s.h.)

**History**
*Choose from the following courses (pair with literature)..............4 s.h.*
HIST 2171
Western Civilization in Global Context I (4 s.h.)
HIST 2172
Western Civilization in Global Context II (4 s.h.)
Human Culture
In addition to satisfying the language requirement:
PSCI 2120
   Cultural Diversity in America................................. 4 s.h.

BS in Mathematics Track Requirements for Teaching Licensure
MATH 2100
   Programming with Graphics, Symbols, and Text ............... 2 s.h.
MATH 2360
   Calculus II ................................................................. 4 s.h.
MATH 2410
   Discrete Mathematics .................................................. 4 s.h.
MATH 2450
   Linear Algebra ............................................................. 4 s.h.
MATH 3120
   Number Theory ............................................................. 2 s.h.
MATH 3150
   Mathematical Statistics ............................................... 4 s.h.
MATH 3250
   Geometry .................................................................... 4 s.h.
Choose from the following courses ................................ 4 s.h.
   MATH 2370
      Vector Calculus (4 s.h.)
   MATH 3430
      Differential Equations (4 s.h.)
   MATH 3470
      Applied Mathematics (4 s.h.)
   MATH 3510
      Abstract Algebra (4 s.h.)
   MATH 3610
      Analysis (4 s.h.)
Math or Natural Science Elective at or above 2100 level ....... 4 s.h.

Secondary Education Minor
EDUC 2030
   Introduction to Teaching, Grades K-12 ..................... 2 s.h.
EDUC 2031
   Introduction to Teaching Practicum, Grades PreK-12 ....... 1 s.h.
EDUC 2100
   Survey of Exceptional Children .................................... 4 s.h.
EDUC 2370
   Reflective Teaching: Planning for Classroom Instruction ... 3 s.h.
EDUC 2900
   Foundations of Education ............................................ 3 s.h.
EDUC 2950
   Technology for Teachers ............................................. 2 s.h.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EDUC 3390*</td>
<td>Secondary Curriculum and Methods</td>
<td>3 s.h.</td>
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<tr>
<td>EDUC 3590*</td>
<td>Content Area Reading</td>
<td>3 s.h.</td>
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<tr>
<td>EDUC 3600*</td>
<td>Assessment and Evaluation</td>
<td>3 s.h.</td>
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<tr>
<td>EDUC 4490*</td>
<td>Student Teaching, Grades 6-10</td>
<td>5 s.h.</td>
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<tr>
<td>EDUC 4500*</td>
<td>Student Teaching, Grades 9-12</td>
<td>5 s.h.</td>
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<tr>
<td>EDUC 4950*</td>
<td>Capstone Seminar, Grades K-12</td>
<td>2 s.h.</td>
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<td>PSCI 2120</td>
<td>Cultural Diversity in America</td>
<td>4 s.h.</td>
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<tr>
<td>PSYC 3320</td>
<td>Adolescent Development</td>
<td>4 s.h.</td>
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<tr>
<td>EDUC 4990*</td>
<td>Comprehensive Assessment (passing state-required</td>
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<td>Praxis II exams, successful portfolio completion,</td>
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<td>successful portfolio defense)</td>
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* Requires admittance to the Teacher Education Program

**Summary of Total Credits**

- Core Curriculum: 42 s.h.
- Track Requirements: 32 s.h.
- Secondary Education Minor: 44 s.h.
- Electives: 6 s.h.
- **Minimum to Complete Licensure Program**: 124 s.h.