

# Secondary (7-12) Mathematics Teacher Licensure Program

Revised 2/12

## Requirement Checklist for Undergraduate Students

Name: \_\_\_\_\_  
 Student ID: \_\_\_\_\_  
 Major: \_\_\_\_\_

Evaluator: \_\_\_\_\_  
 Date: \_\_\_\_\_

### Section 1: Content Requirements

The coursework requirements below reflect the content knowledge all candidates will be accountable for as secondary mathematics teachers. These requirements may be fulfilled with coursework you are completing towards your major or your college's core requirements. It is *not* required that all content requirements be completed in order to apply and begin the teacher licensure program. However, all requirements must be satisfied *prior* to the student teaching semester. In order to fulfill a requirement below, the course must be: a) Completed for a grade (no Pass/Fail); b) Completed with a grade of "C-" or higher.

Advanced Placement (AP), International Baccalaureate (IB), and transfer credit may be applied towards the content requirements. However, this is dependent upon how the university awards equivalency for these credits. Major exemptions to the Arts & Sciences Core Requirements might not apply the Teacher Education Program. Contact an education advisor with questions.

All applicants to the teacher licensure program will be evaluated against the requirements below. Upon admission, all students will receive a completed copy of their checklist which will indicate the requirements that have already been fulfilled, and those that the student still needs to complete. You may also run a degree audit for all licensure programs through the MyCUInfo portal.

|  |   |
|--|---|
| <p><b>GPA Requirement:</b> Have <i>and</i> maintain a 2.75 cumulative GPA (on 4.0 scale)</p> <p>_____ Cumulative (all institutions)<br/>                 _____ In Content Coursework<br/>                 _____ In Education (if applicable)</p> | <p><b>Basic Skills Requirement:</b> Complete an appropriate college-level Math and Composition course with a "B-" or better. Acceptable scores on the ACT, SAT, GRE or Praxis I PPST exam will also satisfy the requirement.</p> <p>Verbal: _____ Math: _____</p> |
|--|---|

| Dept/Course | Grade | Term | Requirement   | Hours  |
|-------------|-------|------|---|--------|
|             |       |      | 1. <b>Calculus I.</b> One course in first semester Calculus. <i>At CU</i> , MATH 1300 or APPM 1350.   | 4 or 5 |
|             |       |      | 2. <b>Calculus II.</b> One course in second semester Calculus. <i>At CU</i> , MATH 2300, MATH 2420, or APPM 1360.   | 4 or 5 |
|             |       |      | 3. <b>Discrete Mathematics.</b> MATH 2001.  | 3      |
|             |       |      | 4. <b>Analysis I.</b> MATH 3001.  | 3      |
|             |       |      | 5. <b>Introduction to the Theory of Numbers.</b> MATH 3110. <i>Spring Only.</i>   | 3      |
|             |       |      | 6. <b>Functions &amp; Modeling.</b> MATH 3120   | 3      |
|             |       |      | 7. <b>Linear Algebra.</b> MATH 3130.  | 3      |
|             |       |      | 8. <b>Abstract Algebra I.</b> MATH 3140   | 3      |
|             |       |      | 9. <b>Geometry.</b> Two courses in modern Geometry. Complete <b>both</b> a. and b. below.<br>a. MATH 3210 <i>Spring Only</i><br>b. MATH 4210  | 6      |
|             |       |      | 10. <b>Probability &amp; Statistics.</b> MATH 3510.   | 3      |
|             |       |      | 11. <b>If necessary</b> , complete additional coursework in mathematics to make 30 semester hours of MATH courses (may include coursework from requirements 1-9 above), of which 21 hours must be upper division. | 30     |

## Section 2: Education (EDUC) Requirements

**COURSES THAT MAY BE TAKEN PRIOR TO ADMISSION:** Though not required, prospective students that are interested in completing an education course prior to admission may enroll in **EDUC 2020** Step 1, **EDUC 2030** Step 2, **EDUC 3013** School & Society, and/or **EDUC 4050** Knowing and Learning. Students that do not complete EDUC 3013 prior to admission should complete it during their first semester in the program.

**NOTE:** Applicants are evaluated based upon a number of criteria; completing coursework prior to applying **does not** guarantee that an applicant will be admitted.

|  |  |  |  |          |
|--|--|--|--|----------|
|  |  |  | 1. <b>EDUC 2020 Step 1: Inquiry Approaches to Teaching</b>   | <b>1</b> |
|  |  |  | 2. <b>EDUC 2030 Step 2: Inquiry Based Lesson Design.</b> EDUC 2020 is a prerequisite for enrolling in EDUC 2030. | <b>1</b> |
|  |  |  | 3. <b>EDUC 3013 School &amp; Society.</b> Counts in the A&S Core as Human Diversity or Contemporary Societies.   | <b>3</b> |
|  |  |  | 4. <b>EDUC 4050 Knowing &amp; Learning.</b> Includes up to 3 hours per week of school-based practicum.           | <b>3</b> |

**ADMISSION** to the Secondary Mathematics Teacher Licensure program **is required** to take any of the courses below.

|  |  |  |   |          |
|--|--|--|---|----------|
|  |  |  | 5. <b>EDUC 4023 Differentiating Instruction in Diverse Secondary Classrooms.</b> Includes up to 4 hours per week of school-based practicum. Should be taken concurrently with EDUC 5375 Project-Based Instruction.                              | <b>3</b> |
|  |  |  | 6. <b>EDUC 4060 Classroom Interactions.</b> Includes up to 5 hours per week of school-based practicum. This course is a pre-requisite for EDUC 5375.  | <b>3</b> |
|  |  |  | 7. <b>EDUC 4232 Language and Literacy across the Curriculum.</b> <i>Spring and Summer only.</i>   | <b>3</b> |
|  |  |  | 8. <b>EDUC 5317 Perspectives on Science and Mathematics.</b> <i>Fall only.</i>  | <b>3</b> |
|  |  |  | 9. <b>EDUC 5375 Project-Based Math Instruction.</b> Includes up to 6 hours per week of school-based practicum. Should be taken concurrently with EDUC 4023 Differentiating Instruction in Diverse Secondary Classrooms. Pre-requisite EDUC 4060 | <b>3</b> |

**Satisfactory completion of all Content Requirements and Education Requirements is a prerequisite for Student Teaching.** You must also pass either state-approved licensure exam, PRAXIS II (Paper-based Test Code: 10061) or PLACE (Test Code: 04), *prior* to student teaching.

### Student Teaching Semester

|                         |  |  |   |           |
|-------------------------|--|--|---|-----------|
|                         |  |  | 10. <b>EDUC 4513 Education and Practice.</b> <i>Must be taken with EDUC 4712.</i>     | <b>2</b>  |
|                         |  |  | 11. <b>EDUC 4712 Secondary Student Teaching.</b> <i>Must be taken with EDUC 4513.</i> | <b>10</b> |
| <b>Total EDUC Hours</b> |  |  |   | <b>35</b> |

**IMPORTANT NOTE:** The CU Boulder School of Education has revised its teacher education programs to meet new statutory requirements. These changes will include, but not be limited to, the ability of an incoming freshman undergraduate student to complete the graduation requirements in four academic years and the inclusion of 800 hours of field experience within the teacher education program. This program has been reauthorized by the Colorado Commission of Higher Education. **However, course requirements are subject to change at any time.**