

# Secondary (7-12) Mathematics Teacher Licensure Program

Revised 02/12

## Requirement Checklist for Post-Baccalaureate 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 previously completed college-level coursework. To receive credit based upon previous coursework, the course must be:**

- Completed at a regionally accredited institution of higher education and for college-level credit.
- Completed with a grade of "C-" or better on a 4.0 scale. Pass/Fail credits will not be accepted unless documented on the institution's transcript that a "pass" is equivalent to "C-" or higher.
- Advanced Placement (AP) and International Baccalaureate (IB) credit may be accepted towards the requirements if the scores meet CU Boulder testing standards (see the CU Boulder course catalog online for score requirements).

It is *not* required that all content requirements be fulfilled before applying for admission, but all requirements must be completed *prior* to the student teaching semester. Applicants with significant deficiencies in the content requirements may not be adequately prepared to enter the program and may be asked to reapply. The School of Education evaluates each applicant's transcript(s) to determine which content requirements have already been fulfilled, and those that the applicant must still complete. All applicants will receive a copy of their checklist upon admission. For students that have deficiencies in the content requirements, recommendations for completing these courses "at CU" have been provided below.

**GPA Requirement:** Have *and* maintain a 2.75 cumulative GPA (on 4.0 scale)

\_\_\_\_\_ Cumulative (all institutions)  
 \_\_\_\_\_ In Content Coursework  
 \_\_\_\_\_ In Education (if applicable)

**Basic Skills Requirement:** 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.

Verbal: \_\_\_\_\_ Math: \_\_\_\_\_

Dept/Course	Grade	Term	Requirement	Hours
			1. <b>Written Communication.</b> Three semester hours in writing or composition.	3
			2. <b>Humanities.</b> Three semester hours (Literature, Philosophy, Theater).	3
			3. <b>Social Science.</b> Three semester hours in social science.	3
			4. <b>Science.</b> Three semester hours in natural science.	3
			5. <b>Calculus I.</b> One course in first semester Calculus. <i>At CU</i> , MATH 1300 or APPM 1350.	4 or 5
			6. <b>Calculus II.</b> One course in second semester Calculus. <i>At CU</i> , MATH 2300, MATH 2420, or APPM 1360.	4 or 5
			7. <b>Linear Algebra.</b> One course in linear algebra. <i>At CU</i> , MATH 3130.	3
			8. <b>Functions &amp; Modeling/Analysis/Abstract Mathematics.</b> Once course in functions and modeling, analysis, or topology. <i>At CU</i> , MATH 3000, 3001, 3120, 3140, 3200, 4001, 4140. <b>MATH 3120 is recommended.</b>	3
			9. <b>Geometry.</b> One course in modern geometry. <i>At CU</i> , MATH 3210 or 4210.	3
			10. <b>Probability &amp; Statistics.</b> One course in probability theory and mathematical statistics. <i>At CU</i> , MATH 3510, MATH 4510, or MATH 4520.	3
			11. <b>Thirty (30) semester hours in Math or Applied Math coursework.</b> (May include requirements 5-10 above).	30
			<b>Eighteen (18) of the required thirty hours above must be completed at the sophomore level or higher.</b> (May include requirements 5-10 above).	18
			12. <b>Recent Mathematics coursework in the past five (5) years.</b> Six semester hours. (May include requirements 5-11 above and EDUC 5317 under Section 2).	
			<b>Course 1</b>	3
			<b>Course 2</b>	3

**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 2040** Step 1 & 2 Combination, **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. See the ACCESS link on the Resources page of the *Prospective Student Guide* to learn how to enroll in courses prior to admission.

**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>	<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.**