## Secondary (7-12) Mathematics Teacher Licensure Program

Requirement Checklist for General Engineering + Students

Name: Student ID: Major:

# **Section 1: Math 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 Engineering Core Requirements might not apply to 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.

GPA Requirement: Have and maintain a 2.75 cumulative GPA (on 4.0 scale)	<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
Cumulative (all institutions)	satisfy the requirement.
In Education (if applicable)	Verbal: Math:

Dept/Course	Grade	Term	Requirement	Hours
			1. Calculus I. One course in first semester Calculus. At CU, APPM 1350.	4
			2. Calculus II. One course in second semester Calculus. At CU, APPM 1360.	4
			3. Calculus III. One course in third semester Calculus. At CU, APPM 2350.	4
			4. Intro to Differential Equations with Linear Algebra APPM 2360.	4
			5. Select two of the following three courses: Discrete Applied Mathematics APPM 3170; Matrix Methods and Applications APPM 3310; <u>or</u> Methods in Applied Mathematics: Complex Variables and Applications APPM 4360. Course 1 Course 2	6
			6. Euclidean and Non-Euclidean Geometry MATH 3210. Spring Only.	3
			7. Select one: Applied Probability APPM 3570 or Statistical Methods APPM 4570.	3
			8. Select one: Physical Modeling APPM 4380 <u>or</u> History of Mathematical Ideas MATH 4820.	3
			Total Math Credit Hours	31

Revised 03/14

Evaluator: Date:

### Section 2: Education (EDUC) Requirements for CU TeachEngineering Students

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, and/or EDUC 2030 Step 2.

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

	<b>EDUC 2020 Step 1: Inquiry Approaches to Teaching</b> <i>OR</i> <b>EDUC 4610 Math and Science Education.</b> EDUC 4610 is restricted to students admitted to the Learning Assistant program and is a variable credit course.	1
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	1. EDUC 2030 Step 2: Inquiry Based Lesson Design.	1

### ADMISSION to the Secondary Mathematics Teacher Licensure program is required to take the EDUC courses below:

2. EDUC 4060 Classroom Interactions. Includes up to 5 hours per week of school-based practicum. This course is a pre-requisite for EDUC 5375 and EDUC 4023.	3
3. EDUC 4232 Language and Literacy across the Curriculum. Spring and Summer only.	3
4. EDUC 5375 Project-Based Math Instruction. Includes up to 6 hours/week of school-based practicum. Should be taken concurrently with EDUC 4023. Pre-requisite EDUC 4060.	3
5. EDUC 4023 Differentiating Instruction in Diverse Secondary Classrooms. Includes up to 4 hours per week of school-based practicum. Should be taken concurrently with EDUC 5375. Pre-requisite EDUC 4060.	3

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 (Test Code: 5161) or PLACE (Test Code: 04), *prior* to student teaching.

### Student Teaching Semester

		6. <b>EDUC 4050 Knowing &amp; Learning.</b> Counts in the Engineering Core towards the Humanities requirement. For CU TeachEngineering students, will be taken in tandem with EDUC 47XX Secondary Student Teaching.	3
		7. EDUC 47XX Secondary Student Teaching. Must be taken with EDUC 4050.	9
		Total EDUC Hours (3 ch counted as Humanities)	26

**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**. The CU TeachEngineering program is a nine-semester course sequence, with student teaching in the 9<sup>th</sup> semester.

