

## TEACHER CERTIFICATION PROGRAM FOR COLLEGE GRADUATES

## MATHEMATICS EDUCATION GUIDELINES

Neag School of Education's Teacher Certification Program for College Graduates (TCPCG) in Mathematics Education is designed to prepare college graduates for certification as teachers of secondary mathematics (grades 7-12). College graduates who have completed or anticipate completing an accredited bachelors degree program at this or another college or university may apply for admission to the TCPCG when their academic background includes completion of the following general education, and subject area major requirements. Applicants must also apply to and be accepted by the Graduate School of the University of Connecticut to pursue a Master of Arts degree in Curriculum and Instruction. To earn The University of Connecticut's institutional recommendation to serve as a teacher, students must successfully complete the requirements for the Master of Arts degree in Curriculum and Instruction and Connecticut's subject knowledge testing requirements.

**Plan of Study Requirements for Mathematics Certification**

1. A bachelor's degree from a regionally accredited institution.
2. General Education Requirements:

General academic courses: Applicants must have 39 semester hours of coursework that meets five of six of the following areas: (1) English; (2) Natural Sciences; (3) Mathematics; (4) Social Studies; (5) Foreign Language; or (6) Fine Arts. Applicants must have a three semester hour U.S. History survey course.

3. SUBJECT AREA MAJOR:

Minimum of 36 credits, which includes at least 30 credits of math and up to 6 related credits. Required courses include: Calculus I; Calculus II; Geometry; History of Mathematics; Linear Algebra or College Algebra; Probability; Transitions to Mathematics and/or Proof-Intensive Number Theory; Statistics; Statistics II or Abstract Algebra.

Related courses: To best prepare for interdisciplinary teaching, particularly within STEM areas, suitable related area courses can include the following: Computer Science, Environmental Science, Physics, Engineering, Philosophy (Logic), Statistics, or Combinatorics.

4. PROFESSIONAL EDUCATION AND SUBJECT AREA REQUIREMENTS:

**MASTER OF ARTS IN CURRICULUM AND INSTRUCTION**

<i>Summer Session I</i>	EDCI 5060	Social and Multicultural Foundations of Education (3)
	EDCI 5065	Learning Theories (3)
	EDCI 5070	Methods of Instruction and Evaluation (3)
	EDCI 5825	Enhancing Classroom Curriculum with Computers and Electronic Media (3)
<i>Summer Session II</i>	EPSY 5108	Instruction for Students with Special Needs in the Classroom Environment (3)
	EDCI 5080	Reading and Literacy in the Content Area (3)
	EDCI 5085	Subject Area Methods (3)
<i>Fall</i>	EDCI 5090	Directed Student Teaching (9)
	EDCI 5050	Seminar I: Student Teaching Seminar (3)
<i>Spring</i>	EDCI 5830	Curriculum Laboratory: Advanced Clinical Practices (3)
	EDCI 5092	Practicum (3)
	EDCI 5875	Multicultural Education (3)
	EDCI 5055	Seminar II: Teacher as Professional (3)
	XXX XX	Content Area Elective (3)

**Total: 48 credits**

(45 credits of professional education)  
(3 credits of subject area elective)