MATHEMATICS EDUCATION PROGRAM GUIDELINES
BACHELOR OF SCIENCE IN EDUCATION (MATH2 BS)

These guidelines summarize the requirements for a Bachelor of Science and partial completion of Connecticut certification requirements in mathematics education (Grades 7-12) for students following the 2020-2021 requirements.

1. Complete the GENERAL EDUCATION REQUIREMENTS listed in the Academic Regulations of the University of Connecticut Undergraduate Catalog 2020-2021, which include two W courses (one must be 2000-level or above and associated with the student’s major), two Q courses (one Q course must be from Mathematics or Statistics), an Environmental Literacy course, and courses in Content Areas 1-4 (see catalog.uconn.edu for more information). In addition to the General Education Requirements, students must take a course in U.S. History (HIST 1501 or 1502) and PSYC 1100.

2. Complete a SUBJECT AREA MAJOR in Mathematics consisting of a minimum of 36 credits in mathematics and related areas. Students are required to complete 30 credits in 2000's-4000’s level mathematics courses. Students should fulfill this requirement with the completion of:

   MATH 2110Q, 2210Q, 2360Q, 2410Q, 2710, 2720W, 3160, 3230, 3240, AND 3710

In addition, students are required to take one (1) statistics course from the following: STAT 1000Q or 1100Q. The remaining three (3) credits should be selected from mathematics or areas related to mathematics. Suitable related areas include:

   Mathematics, Statistics, Computer Science, Physical or Natural Science, Philosophy (Logic).

Up to six (6) credits of 1000’s level courses may be included as part of the 36 credits with prior consent of the faculty advisor.

3. Complete the following PROFESSIONAL EDUCATION REQUIREMENTS:

   EDCI 3100/W – Multicultural Education, Equity and Social Justice  
   EPSY 3010 – Educational Psychology  
   EGEN 3100 – Seminar/Clinic: The Student as Learner  
   EPSY 3110 – Exceptionality  
   EDCI 3212 – Introduction to Secondary Methods and Clinic - Mathematics  
   EDCI 4010 – Teaching Reading and Writing in the Content Areas  
   EDCI 4210W – Instruction and Curriculum in the Secondary School  
   EPSY 3125 – Classroom and Behavior Management  
   EGEN 4100 – Seminar/Clinic: Methods of Teaching  
   EPSY 4010 – Assessment of Learning  
   EDCI 4250 – Directed Student Teaching  
   EGEN 4110 – Seminar/Clinic: Analysis of Teaching

Students must earn at least 120 credits.

MASTERS OF ARTS IN CURRICULUM AND INSTRUCTION

To earn the University of Connecticut’s institutional recommendation for teacher certification, students must additionally successfully complete the requirements for the Master of Arts in Curriculum and Instruction including a minimum of thirty (30) credits (two full-time semesters) of graduate level course work. Requirements are anticipated to include at least:

Content Pedagogy: EDCI 5450 – Teaching and Learning Mathematics in the Secondary School (3 credits)  
Curriculum Electives and/or Graduate Liberal Arts: (6 credits)  
Language and Cultural Diversity in Education: (3 credits)  
Practicums: EDCI 5092 (3 credits fall) and EDCI 5093 (4 credits spring)  
Seminar: EDCI 5094 (3 credits fall) and EDCI 5095 (3 credits spring)  
Research: EPSY 5195 (1 credit fall and 1 credit spring)  
Technology: EPSY 5221 – Wise Integration of Technology into Teaching and Learning Environments (1-3 credits)
This is a SAMPLE sequence. Any course can be taken in an alternate semester (if offered). Pay attention to mathematics courses only offered in the fall and courses that are prerequisites for others. Requests for substitutions of required mathematics courses may be considered with compelling reasons.

**SEMESTER 1**
- ENGL 1010 or 1011 4
- MATH 1131Q – Calculus I 4
- Content Area 1 3
- PSYC 1100 – Psychology (Also fulfills CA 3) 3

**SEMESTER 2**
- MATH 1132Q – Calculus II 4
- MATH 2360Q – Geometry 3
- Content Area 3 Lab (PHYS suggested) 4
- Content Area 4 3

**SUMMER**
- *FOREIGN LANGUAGE 8

**SEMESTER 3**
- Content Area 4 3
- MATH 2110Q – Multivariable Calculus 4
- MATH 2210Q – Applied Linear Algebra 3
- STAT 1000Q or 1100Q – Statistics 4
- EPSY 3010** – Educational Psychology 3

**SEMESTER 4**
- HIST 1501 or 1502 – US History (Also fulfills CA 1) 3
- Content Area 2 3
- MATH 2410Q – Elementary Differential Equations 3
- MATH 2710 – Transition to Advanced Mathematics 3
- MATH or Related course (if enrolled in dual degree) 3

**SEMESTER 5**
- Content Area 2 3
- EDCI 3100/W – Multicultural Education, Equity & SJ 3
- EPSY 3110 – Exceptionality (fall or spring junior year) 2
- EGEN 3100 – Seminar/Clinic 3
- MATH 3240 – Introduction to Number Theory 3
- MATH 3710 – Introduction to Mathematical Modeling 3

**SEMESTER 6**
- EDCI 3212 – Intro. to Secondary Methods & Clinic 3
- EPSY 3110 – Exceptionality (fall or spring junior year) 2
- EDCI 4010 – Teaching Reading & Writing in the Content Areas 2
- MATH 2720W – History of Mathematics 3
- MATH 3160 – Probability 3

**SEMESTER 7**
- EPSY 3125 – Classroom and Behavior Management 3
- EDCI 4210W – Instruction & Curric. in Secondary School 3
- EGEN 4100 – Seminar/Clinic 3
- MATH 3230 – Abstract Algebra I 3
- MATH or Related course (if enrolled in dual degree) 3

**SEMESTER 8**
- EPSY 4010 – Assessment of Learning 2
- EDCI 4250 – Directed Student Teaching 9
- EGEN 4110 – Seminar/Clinic 3

**SEMESTER 9 (Master’s)**
- EDCI 5092 - Practicum 3
- EDCI 5094 – Seminar 3
- EPSY 5195 – Research course 1
- EPSY 5221 – Wise Technology (either semester) 1-3
- Diversity course (either semester) 3
- EDLR 5015 – Leadership (either semester) 3
- Elective 3-6

**SEMESTER 10 (Master’s)**
- EDCI 5093 – Practicum 4
- EDCI 5095 – Seminar 3
- EPSY 5195 – Research Course 1
- EPSY 5221 – Wise Technology (either semester) 1-3
- Diversity course (either semester) 3
- EDLR 5015 – Leadership (either semester) 3
- Elective 3-6
- EDCI 5450 – Teaching & Learning of Math in Secondary School 3

*If the student completed less than three (3) years of a single foreign language in high school.

**Students should take EPSY 3010 prior to semester 5, if possible, but no later than semester 6. The course is available fall, spring, summer and online.