

Secondary Education - Mathematics

Effective Fall 2013

Students seeking Secondary Education Certification in Mathematics must declare majors in both Mathematics and Secondary Education (Mathematics) and complete the full Mathematics BA course sequence as well as the Secondary Education Professional Course and Certification requirements. Students must consult their advisers in both departments each semester regarding course selection and other certification requirements.

A total of 120-122 credits are required for a Bachelor of Science in Education degree with a specialization in Mathematics. Requirements include:

Required by Math for Secondary Ed. Major (46 credits)

INTSTUDY.100	University Seminar for Math Students
MATH.125	Calculus I
MATH.126	Calculus II
MATH.185	Discrete Math
MATH.225	Calculus III
MATH.226	Calculus IV
MATH.231	College Geometry
MATH.241	Probability and Statistics
MATH.310	Abstract Algebra or MATH.421 Advanced Calculus
MATH.314	Linear Algebra
MATH.360	Number Theory
MATH _____	Any one Math course numbered 308 or higher. MATH 311 is strongly recommended.
MATH _____	Any one Math course numbered 308 or higher.
MATH.410	Mathematical Modeling

Choose one of the following options:

- COMPSCI.121 and COMPSCI.122
- COMPSCI.121 and any CS course 300 or higher
- COMPSCI.123 and COMPSCI.223

Required by Education (40 credits)

COMMSTUD.103	Public Speaking or COMMSTUD.104 Interpersonal Communication
EDFOUND.204	Educational Technology
EDFOUND.206	Teachers, Schools & Society
EDFOUND.251	Psychological Foundations of Ed
EDFOUND.291	Principles of Teaching
EDFOUND.311	Classroom Meas. & Assessment
EDFOUND.406	Multicultural Education
EDFOUND.427	Classroom Mgt. & Eff. Discipline
EDFOUND.497	Student Teaching: 1st Experience
EDFOUND.498	Student Teaching: 2nd Experience
PROFSTUD.320	PDS (replaces EDFOUND.311 & SECED.351)
PSYCH.101	General Psychology
SECED.452	Teaching Math in Sec Sch (Spring only)

Required by PDE (21 credits)

ENGLISH.101	Foundations of College Writing I
ENGLISH_____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257)
PROFSTUD.494	ELL Strategies
PSYCH.212	Adolescent Psychology
SPECED.101	Introduction to Except Individuals
SPECED.275	Linking Assessment
SPECED.358	Methods of Instruction for Students with Disabilities

Free Elective if Needed (1 credit)**Meeting General Education Goals:**

Credit toward General Education Goals is met with General Education Points (GEPs). Courses can offer a maximum of 4 GEPs. Some courses offer GEPs toward more than one General Education Goal. The range of courses awarding GEPs, and the degree to which major requirements and general education requirements may be satisfied simultaneously, will change as more courses are approved for General Education credit. See www.bloomu.edu/mycore

Course Number	Course Title	GEPs
***Goal 1: Communication; minimum 7 GEPs, from minimum of 3 disciplines.		
COMMSTUD.103/104	Public Speaking or Interpersonal Communication	3
EDFOUND.291	Principles of Teaching	2
ENGLISH.101	Foundations of College Writing I	3
*Goal 2: Information Literacy; minimum 2 GEPs		
EDFOUND.204	Educational Technology	3
**Goal 3: Analysis, Quantitative Reasoning, & Problem Solving; minimum 5 GEPs, from minimum of 2 disciplines.		
BIOLOGY.114 or CHEM.115	Concepts in Biology I or Chemistry for the Sciences 1	1
MATH.125	Calculus I	2
MATH.126	Calculus II	3
**Goal 4: Cultures & Diversity; minimum 5 GEPs, from minimum of 2 disciplines.		
EDFOUND.291	Principles of Teaching	1
EDFOUND.406	Multicultural Education	2
SPECED.101	Intro to Exceptional Individuals	2
**Goal 5: Natural Sciences; minimum 5 GEPs, from minimum of 2 disciplines.		
BIOLOGY.114 or CHEM.115	Concepts in Biology I or Chemistry for the Sciences 1	3
MATH.125	Calculus I	1
PHYSICS.110	Introduction to Astronomy	3
**Goal 6: Social Sciences; minimum 5 GEPs, from minimum of 2 disciplines.		
EDFOUND.206	Teachers, Schools, and Society	1
PSYCH.101	General Psychology	3
SPECED.275	Linking Assessments	1
**Goal 7: Humanities; minimum 5 GEPs, from minimum of 2 disciplines.		
ENGLISH ____	Literature (151, 152, 156, 226, 227, 236, 237, 246, 247, or 257)	2

MUSIC.101 or THEATRE.102/103	Music Listening or Introduction to Theatre or Theatre Appreciation	3
*Goal 8: Second Language Competency; minimum 2 GEPs; Select one of the two options.		
ASLTERP.155	American Sign Language 1	2
_____ 102	Competency test or any second language 102 level	
*Goal 9: Physical Activity & Health; minimum 2 GEPs.		
*Goal 10: Responsible Citizenship; minimum 2 GEPs.		
EDFOUND.406	Multicultural Education	1
SPECED.101	Intro to Exceptional Individuals	1

*GEPs for this goal may come from just 1 discipline. **GEPs must come from at least 2 disciplines. ***GEPs must come from at least 3 disciplines.

Additional Notes on the Secondary Education Major:

Admission Packet, for Admission into the Teacher Education Program: due by 60 credits, signed by your Education advisor and submitted to Teacher Education Admission Packets Coordinator. Forms and information available from Education Studies.

- Eligible test scores:** After April 2, 2012: **PAPA (Pre-service Academic Performance Assessment)** www.pa.nesinc.com: Reading, score of 220 Writing, score of 220 Math, score of 220
or Praxis I: Academic Skills Assessment if taken on or before April 2, 2012 (and retakes until April 2, 2014):
Reading, score of 172 Writing, score of 173 Mathematics, score of 173
- Cumulative GPA of 3.0, with a C or better** in all professional education and specialization courses.
- 6 credits of college-level math and 6 credits in English composition and literature**
- Completion of early field experience:** five days/30 hours, non-credit, w/ appropriate diversity in contexts: forms required
- Two recommendations** from Teacher Education faculty: standardized form required
- Professional liability insurance** (available through PSEA, at www.PSEA.org)
- Tuberculosis Screening** results, from a test taken within the last two years (likely repeated before student teaching).
- A resume** that follows the sample format: format available from Education Studies
- Criminal checks:** Act 34 (Criminal Record Check) Act 151 (Child Abuse History Check)
Act 114 FBI Clearance: register at www.pa.cogentid.com; register under Department of Education; fingerprinting available at BU bookstore. Clearances are valid for 1 year for one year: will need to repeat before student teaching

Student Teaching—Placement Card and Eligibility Packet:

- Student Teaching Placement Card**—intent to student teach:
for fall student teaching, due **by February**
for spring student teaching, due **by September**
- Student Teaching Eligibility Packet:** Download checklist and forms from the Student Teaching tab under Student Resources on the College of Education homepage.
- Student Teaching Eligibility Packet is due:** signed by your Education advisor, to the Student Teaching Placement Office:
April 1 for fall student teaching
October 1 for spring student teaching