

Boston College - Lynch School of Education
Mathematics/Computer Science Interdisciplinary Major

Academic Year 2011-2012

The MATHEMATICS/COMPUTER SCIENCE INTERDISCIPLINARY MAJOR (9 courses/29+ Credits) is available as a second major to students in the Lynch School of Education who are pursuing *Elementary Education* and *Applied Psychology and Human Development*. **This interdisciplinary major is not an option for students majoring in Secondary Education.** The major is recommended for students who may have had four years of high school mathematics and wish to specialize in the area of mathematics and computer science, but who are not interested in the traditional mathematics major because of their intended career objective as elementary educators.

A. SIX REQUIRED COURSES (19 Credits)		Credits	FALL	SPRING
MT190	Fundamentals of Math I	3	X	
MT191	Fundamentals of Math II	3		X
ED128	Computer Applications for Educators <i>offered every other even spring</i>	3		'12S
MT290	Number Theory for Teachers <i>offered alternatively with MT291 every other spring</i>	3		'12S
MT291	*Geometry for Teachers or MT453 Euclid's Elements (<i>see note</i>)	3		'13S
MT353	Statistics (4 credits)	4	X	X

B. CHOOSE ONE COURSE (3 or 4 Credits):		Credits	FALL	SPRING
ED367	Restructuring the Classroom with Technology (<i>offered periodically</i>)	3	X	
CS101	Computer Science I	3	X	X
CS021	Computers in Management	3	X	X
CS074	Digital World: Information and Computing	3	X	X
MT348	Information Systems: Applications & Overview	4	X	X
MT340	Exploring the Internet	4	X	X
MT351	Discovering Computer Graphics	4	X	X
MT235	Mathematics for Management Science *Or a more advanced CS course w/Math Ed faculty approval	3	X	X

C. CHOOSE ONE COURSE (4 Credits):		Credits	FALL	SPRING
MT100	Calculus I	4	X	X
MT102	Calculus I (Math/Science majors)	4	X	
MT101	Calculus II	4	X	X

D. CHOOSE ONE ELECTIVE BELOW OR FROM SECTION 'B' (3 Cr)		Credits	FALL	SPRING
ED674	Teaching Math Problem Solving 4-12 (every other odd spring) <i>Highly recommended</i>	3		'13S
MT210	Linear Algebra	3	X	X
MT216	Introduction to Abstract Math note: this course is demanding and is recommended to those who have taken AP calculus exam & achieved a score of 4 or 5.	3	X	X

**Geometry for Teachers* is recommended for Elementary majors and *Euclid's Elements* is an alternate recommendation for those with high achievement in Math.

10/2011

