COURSE TITLE: Math Content PRAXIS Review

COURSE NUMBER: MATH 501   SEMESTER: Spring 2010

REFERENCE NUMBER: 1104 (undergraduate)   TIME AND ROOM: Sat 9-12, K 504
                              1108 (graduate)   February 6, 13, 20, 27

PREREQUISITE: An undergraduate degree in mathematics or at least 24 (graduate and/or
undergraduate) credits in mathematics, including courses in precalculus, differential and integral
calculus, linear algebra, elementary or mathematical statistics, and geometry.

INSTRUCTOR: Jonathan Flint

OFFICE HOURS: Monday 4-6

OFFICE: Karnoutsis 524

TELEPHONE NUMBER: (908) 208–4375

E-MAIL ADDRESS: jaflint718@aol.com

COURSE DESCRIPTION: A review of the mathematical concepts included in the ETS PRAXIS
(Professional Assessments for Beginning Teachers) Mathematics Content Knowledge secondary
teachers' examination. (1 credit PASS/FAIL)

COURSE OBJECTIVES/LEARNING OUTCOMES: Students will:
1)   demonstrate strategies for using current technology to solve math problems.
2)   compare problem-solving techniques acquired from different areas of mathematics.
3)   relate mathematical definitions to new situations.
4)   synthesize knowledge from various areas of mathematics.
5)   assess appropriate strategies for solving mathematics problems.

REQUIRED TEXTBOOK: *The Praxis Series, Mathematics: Content Knowledge (Test Code
0061)* is an ebook, available on the ETS website. Also, download *Tests at a Glance:
Mathematics (0061)* http://www.ets.org/Media/Tests/PRAXIS/pdf/0061.pdf.

COURSE REQUIREMENTS: Students are required to bring a graphing calculator to class.
Home study and work on assigned sample test problems (50%), class discussion of sample test
problems and problem solving strategies (25%), and practice tests (25%) are required
components of the class.

EVALUATIONS AND GRADING: The course is PASS/FAIL. Students that satisfactorily
complete the above components will PASS.

A passing score (currently 137) on the Math Content PRAXIS (10061) is required to for a
license to teach secondary-level mathematics in New Jersey (certification is K-12 Mathematics).