MATH 4970 -- Special Topics:
Preparing for the Secondary Mathematics Praxis II

Spring Semester 2018

**Class Meetings**

Thursday, 5:30-7:30 PM biweekly

Haley 2464

**Instructors**

Bradley Bearden

W. Gary Martin, wgarymartin@auburn.edu, 334.559.3141

**Text**

None assigned

**Course Description**

To review mathematics content relevant to teaching secondary mathematics, particularly the content included on the Praxis II test (5161)

**Course Objectives**

By the end of the course, students will:

* Gain deeper understanding of major areas of mathematics needed to teach secondary mathematics, including number and quantity; algebra, functions, and calculus; geometry; probability and statistics; and discrete mathematics
* Better understand the format and procedures for the Mathematics Content Knowledge Praxis II test.

**Course Content and Schedule**

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| --- | --- |
| 1/11/18 | Introduction to the course |
| 1/25/18 | Number and Quantity |
| 2/8/18 | Algebra |
| 2/22/18 | Functions |
| 3/8/18 | Calculus |
| 3/22/18 | Probability and Statistics |
| 4/5/18 | Geometry |
| 4/19/18 | Discrete Mathematics |

**Course Requirements/Evaluation**

* Participation (1/3 of course grade)

Students should be present for class and participate fully in small group discussions.

* Homework (2/3 of course grade)

Students should complete homework in advance, including a discussion of their answer and how they found it. They should take notes during class, with any corrections and additional insights.

**Class Policies**

* Attendance. Each student is expected to attend all classes as scheduled. Students who miss a class because of illness need a doctor’s statement for verification of sickness and should clear the absence with the instructor the day they return to class. The second non-University approved absence from class and each succeeding unapproved absence from class will result in a lowering of the student's final grade by one letter grade.
* Unannounced Quizzes: The instructor may give unannounced quizzes as deemed necessary, to be included as a part of the homework score.
* Accommodations: Students who need accommodations are asked to electronically submit their approved accommodations through AU Access and to arrange a meeting during office hours the first week of classes, or as soon as possible if accommodations are needed immediately. If you have a conflict with my office hours, an alternate time can be arranged. To set up this meeting, please contact me by e-mail. If you have not established accommodations through the Office of Accessibility, but need accommodations, make an appointment with the Office of Accessibility, 1228 Haley Center, 844-2096 (V/TT).
* Honesty Code: The Student Academic Honesty Code (see Student Policy eHandbook) will be strictly enforced.
* **Students are encouraged to provide feedback on their experiences in the course using AU eValuate.**