

**EMAT 4360/6360**  
**Teaching and Learning in Secondary School Mathematics**  
**EMAT 5360/7360**  
**Secondary School Mathematics Field Experience**  
**Fall, 2008**

---

---

**Instructors**  
**105 Aderhold Hall**

Kanita DuCloux	<a href="mailto:kducloux@uga.edu">kducloux@uga.edu</a>	542-4544 (office)	109C	EMAT 4360
Kyle Schultz	<a href="mailto:kschultz@uga.edu">kschultz@uga.edu</a>		130	EMAT 5360
Denise Mewborn	<a href="mailto:dmewborn@uga.edu">dmewborn@uga.edu</a>		105	EMAT 6360 & 7360

---

---

**Teaching Assistants:**

Nicholas Cluster, Shadreck Chitsonga, Ryan Fox, Erik Jacobsen, Zandra de Araujo  
Also, several doctoral students may attend some classes and will be available as needed.

---

---

**Overview:** We work from a belief that *mathematics for teaching* is different from mathematics for oneself, and that at its core, mathematics for teaching carries an implication of *mathematics for all students*. Within this mathematical context we ask you to:

- work toward a critical view of your future classroom and your role within it.
- explore and develop tools to become the mathematics teacher you envision
- become aware of tensions between current practices and practices promoting education of all students.
- consider advantages of working within a professional learning community and factors that contribute to or detract from such communities.
- challenge/broaden/deepen your mathematical understanding of topics in the HS classroom.
- reflect on what you observe, your own knowledge and experiences, students and their mathematical thinking.

We will interact with practicing teachers and students in local high schools to:

- learn and practice critical observation (listening, feeling) of mathematics classrooms.
- challenge (develop) both experiential and theoretical images of mathematics classrooms through observation.
- consider the value and use of documents such as lesson plans, text books, state standards, and local curriculum guides.
- examine the secondary mathematics department structure as it relates to professional learning communities and understand your current and future role in such a community.

**Course schedule:** Mondays & Wednesdays, 12:20 – 2:00; Room 116 Aderhold  
Tuesdays & Thursdays 12:30–1:45; Room 111 Aderhold

*These are the times the class will meet on those days when you are not making school visits.*

**Field experiences:** You will visit local middle and high schools on several occasions. Due to travel time and school schedules, your afternoons must be open from 12:20–3:20 daily. School visits will most likely occur on these dates, but may change in response to school needs:

- September 17-19, October 1-3, October 22-24 (Wednesday through Friday)
- November 3-14, (Monday through Friday)

### **Required texts**

Huetnick, L & Munshin, S. N. (2008). *Teaching mathematics for the 21<sup>st</sup> century: Methods and activities for grades 6-12*. New Jersey: Pearson Prentice Hall.

Chappell, M. F., Choppin, J. & Salls, J. (Eds.), (2004). *Empowering the beginning teacher of mathematics: High school*. Reston, VA: NCTM.

### **Highly Recommended texts**

National Council of Teachers of Mathematics. (2000). *Principles and standards for school mathematics*. Reston, VA: Author.

National Council of Teachers of Mathematics. (2005). *Mathematics assessment sample, grades 9-12*. Reston, VA: Author.

National Council of Teachers of Mathematics. (2007). *Mathematics teaching today: Improving practice, improving student learning*. Reston, VA: Author.

Note: Each of these *Standards* volumes is available for purchase from the National Council of Teachers of Mathematics (NCTM) at <http://www.nctm.org> and **is available full-text online for members of NCTM for no cost**. Membership also includes access to a journal of your choice.

We suggest that you join the National Council of Teachers of Mathematics (NCTM) and subscribe to the *Mathematics Teacher*. Student E-membership is \$39, and you may join online at <http://www.nctm.org>. It is also a good idea to join the Georgia Council of Teachers of Mathematics (GCTM). See <http://www.gctm.org>. Student membership is free for juniors and seniors. Unless you object, the entire class list will be submitted to GCTM for student membership. We expect that you are already a University of Georgia's Mathematics Education Student Association (MESA). Membership dues are \$5 for undergraduates and \$10 for graduate students. MESA is an opportunity to interact with all members of the Department of Mathematics and Science Education on a more informal basis. See <http://www.coe.uga.edu/mesa>

### **Products that contribute to your course grade**

#### **EMAT 4360/6360 (A-F)**

Daily work and class participation	20 points
Midterm	20 points
Reflective journal	20 points
Paper and poster project	20 points
Final project	20 points

Each of these components will be described more fully as the semester progresses.

#### **EMAT 5360/7360 (S/U)**

Reflective writing assignments and field reports	S/U
--	-----

For 5360, you will be asked to periodically reflect upon and write about classroom discussions. You also must participate in all field experiences and submit satisfactory reflective field reports. These reflections will also contribute to your experiences in 4360 and to your final portfolio.

### **Writing**

High quality written work will take advantage of the theoretical and practical ideas set forth in your reading assignments and discussed in class

All written assignments must be typed and submitted through WebCT at [webct@uga.edu](mailto:webct@uga.edu). Each assignment must be submitted by the deadline. Assignments will be posted on the EMAT 4360/5360 class web page. Reading assignments may require a brief written summary. Label the attached files – *assignment\_lastname.doc* For example, my reflective journal would be *reflection\_ducloux.doc* All grades on EMAT 5360 assignments contribute to your grade in EMAT 4360/6360.

### **Rock Eagle**

The Georgia Council of Teachers of Mathematics will host their 49<sup>th</sup> annual conference at Rock Eagle this fall from Wednesday October 15 – Friday October 17. Class will not meet those days. You will be expected to attend one day of the conference and to write about some of the sessions you attend. The theme is – Decision 2008 Mathematics: The winning ticket.

### **Georgia Assessment for the Certification of Educators (GACE)**

Georgia certification requires two tests for mathematics certification: Test 1 (022) and Test 2 (023). Each test contains a section with selected response questions and a section with constructed-response assignments. Each section counts for a percentage of your total test score. The nonrefundable registration fee is \$20 & each test is \$65. See the GACE Registration Bulletin for more information.

The GACE will be offered on the following dates this academic year: 10/25/08, 1/10/09, 3/28/09, 5/9/09,6/13/09. The registration deadline is about one month before the exam. Scores are sent approximately one month after. The GACE is required for both regular and provisional certification, so we encourage you to take it soon so that you will have additional opportunities to take it, should you need them. Register soon because spots fill up, particularly in Athens. You can get more information and register online at <http://www.gace.nesinc.com/>

### **Other important information**

- Deadline for application for student teaching: Tuesday, August 26
- Deadline for scholarship during student teaching: September 26
- Deadline for Stanley Scholarship: October 1
- You must either have or waive tort insurance before the first field experience - free.
- You must have a current criminal background check prior to first field experience - \$48.50 (included in application for student teaching packet)

You will find forms and additional information in the hallway displays outside of Aderhold 122.