Instructor: Dr. Christopher Jett
Office: 322 Boyd Building
Class Location: 303 Boyd Building
Office Hours: M/W 11:30–12:00; M 1:00–3:00

E-mail: cjett@westga.edu
Phone: (678) 839-4130
Class Meeting: M/W 9:00–11:30 a.m.

Others by appointment

Catalog Description:
This mathematics course is designed to address the unique needs of future teachers of mathematics. It is required of UTEACH mathematics majors and also counts toward their mathematics degree. In the course, students engage in explorations and lab activities designed to strengthen and expand their knowledge of the topics found in secondary mathematics.

University Policy:
Please carefully read and review the important information at the following link: http://www.westga.edu/assetsDept/vpaa/Common_Language_for_Course_Syllabi.pdf. This link contains material pertaining to your rights and responsibilities as a student in this class. Because these statements are updated as federal, state, university, and accreditation standards change, please carefully review the information each semester.

Ancillary Textbooks:

Student Learning Outcomes:
In this course, mathematics teacher candidates should be able to do the following:
• Demonstrate proficiency in working with function related topics and mathematical modeling.
• Broaden their understanding of secondary mathematics content knowledge.
• Strengthen connections between college mathematics and secondary school mathematics.
• Make connections between secondary school mathematics and other content areas.
• Exhibit proficiency in using technology in the mathematics classroom.
• Present mathematical ideas and topics in a knowledgeable and effective manner.
• Become efficient seekers of mathematics content knowledge.
• Establish personalized reform-based visions for teaching secondary mathematics aligned with the Common Core State Standards for Mathematics.

Attendance Policy:
It is my expectation that students will attend every class session and be punctual. Class participation entails being an active participant during the teaching and learning process. In the event of an absence, students are expected to get the materials and information relevant to the missed class from their peers.

Evaluation Techniques:
Homework: 10%  ASK Papers: 15%  Reading Leader: 5%
Microteaching Project: 15%  Midterm Exam: 25%  Final Exam: 30%
**Information about Course Assignments:**

**Homework**
Each mathematics teacher candidate will complete the daily homework problems and place them in a homework folder. Homework folders will be turned in on examination days.

**ASK Papers**
Each mathematics teacher candidate will complete five ASK papers. These papers are designed to delve deeper into the mathematics at the secondary and undergraduate levels. ASK papers must be a full double-spaced page for full credit to be awarded.

**Reading Leader**
Each mathematics teacher candidate will serve as the reading leader for a particular class session’s reading(s).

**Microteaching Project**
Each mathematics teacher candidate will prepare an innovative 20–25 minute microteaching presentation. Information concerning the microteaching project will be posted in CourseDen.

**Midterm Examination**
The midterm examination will consist of a cumulative assessment of the concepts covered throughout the first portion of the semester.

**Final Examination**
The final examination will consist of a cumulative assessment of the concepts covered throughout the entire semester.

**Important Dates:**
- ASK Papers are due each Monday before 9:00 a.m.
- The microteaching presentation is scheduled for Wednesday, July 12th.
- The final exam is scheduled for Wednesday, July 19th from 9:00–11:30 a.m.

**Class Policies and Procedures:**
1. All course assignments and readings will be uploaded to CourseDen.
2. There will be no make up for the reading leader assignment or the microteaching presentation. Failure to present on your scheduled date will result in a grade of zero.
3. Late work is accepted with a 50% penalty for one late assignment. Please note that only one assignment can be submitted late. Other late submissions above the allotted one will result in a grade of zero.
4. If a student must miss the midterm examination and has excused documentation, then the final examination will be used for the missed test in the calculation of the final course grade.
5. Calculators can be used during examinations; however, cell phones may not be used (even as calculators).
6. In an effort to respect the learning environment, please make certain that cellular phones are placed on vibrate or silent during class time.
7. Cheating is not tolerated. If a student is caught cheating, then the student will receive a zero for the test or assignment and will be reported for academic dishonesty.
8. Grades cannot be sent via e-mail to students. Students are expected to keep accurate records and ascertain where they stand in the course.
9. The daily schedule is included with this syllabus. Please note that this daily schedule is tentative. Changes might be made based on students’ needs, inclement weather changes, etc.
10. Conferences can be beneficial and are encouraged. All conferences should occur during office hours.

11. Office hours will not be kept during final examination week. If a meeting is necessary during that week, then please schedule an appointment.

**Course Readings:**


**Professional Resources:**


### Daily Schedule: Summer 2017

<table>
<thead>
<tr>
<th>Date</th>
<th>Learning Objective</th>
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<tbody>
<tr>
<td>May 31st</td>
<td>Introduction to Functions and Modeling</td>
</tr>
<tr>
<td>June 5th</td>
<td>Functions &amp; Relations</td>
</tr>
<tr>
<td>June 7th</td>
<td>Graphs of Functions</td>
</tr>
<tr>
<td>June 12th</td>
<td>Problem Solving I</td>
</tr>
<tr>
<td>June 14th</td>
<td>Trigonometric Functions</td>
</tr>
<tr>
<td>June 19th</td>
<td>Quadratic Functions</td>
</tr>
<tr>
<td>June 21st</td>
<td>Midterm Exam</td>
</tr>
<tr>
<td>June 26th</td>
<td>Logarithmic &amp; Exponential Functions</td>
</tr>
<tr>
<td>June 28th</td>
<td>Problem Solving II</td>
</tr>
<tr>
<td>July 3rd</td>
<td>Functions in Calculus</td>
</tr>
<tr>
<td>July 5th</td>
<td>Problem Solving III</td>
</tr>
<tr>
<td>July 10th</td>
<td>Mathematical Misconceptions</td>
</tr>
<tr>
<td>July 12th</td>
<td>Microteaching Presentations</td>
</tr>
<tr>
<td>July 17th</td>
<td>GACE/MAA/NCTM/Review for Final</td>
</tr>
<tr>
<td>July 19th</td>
<td>Final Examination: 2:00 p.m. – 4:30 p.m.</td>
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### Reading Schedule: Summer 2017

<table>
<thead>
<tr>
<th>Date</th>
<th>Completed Reading(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>May 31st</td>
<td>Tobias (1995)</td>
</tr>
<tr>
<td>June 7th</td>
<td>Ronau, Meyer, Crites, &amp; Dougherty (2014)</td>
</tr>
<tr>
<td>June 14th</td>
<td>Freire (2005)</td>
</tr>
<tr>
<td>June 21st</td>
<td>Dahlke (2008); Wu (2011)</td>
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<tr>
<td>June 28th</td>
<td>Hung (2015); Jett, Stinson, &amp; Williams (2015)</td>
</tr>
<tr>
<td>July 5th</td>
<td>Cirillo (2009); Karp, Bush, &amp; Doughtery (2015)</td>
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### ASK Papers: Summer 2017

<table>
<thead>
<tr>
<th>Date</th>
<th>ASK Paper Due</th>
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<tbody>
<tr>
<td>June 5th</td>
<td>ASK Paper #1 Due</td>
</tr>
<tr>
<td>June 12th</td>
<td>ASK Paper #2 Due</td>
</tr>
<tr>
<td>June 19th</td>
<td>ASK Paper #3 Due</td>
</tr>
<tr>
<td>June 26th</td>
<td>ASK Paper #4 Due</td>
</tr>
<tr>
<td>July 3rd</td>
<td>ASK Paper #5 Due</td>
</tr>
<tr>
<td>July 10th</td>
<td>ASK Paper #6 Due</td>
</tr>
<tr>
<td>July 17th</td>
<td>ASK Paper #7 Due</td>
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