# MATH 6663 (N01)  Problem Solving 2: Geometry & Graphs  
## Fall 2017

<table>
<thead>
<tr>
<th>Textbook:</th>
<th>No official textbook</th>
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<tr>
<td>Instructor:</td>
<td>Dr. Xiaofeng Gu (<a href="mailto:xgu@westga.edu">xgu@westga.edu</a>)</td>
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<td>Office:</td>
<td>Boyd 316; Phone: (678) 839-4143</td>
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<td>Office Hours:</td>
<td>TR 8:30–9:20am, 1:00–1:30pm; F 9:00–10:00am (MTC), 12:00–1:00pm</td>
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<td>Course Website:</td>
<td>CourseDen</td>
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## 1 Course Description
The second problem solving course focuses on the area of geometry and graphs. The goal of this course is to expose students to middle and high school mathematics contest problems and to help them discover efficient problem solving strategies. After students learn the basic results and tools in a particular topic, they are invited to solve typical problems, where hints will be provided by the instructor as needs be. Students will gradually be introduced to various classical mathematical problem-solving strategies.

## 2 Learning Outcomes
The students are expected to
- improve skills in problem solving in geometry and graphs.
- learn to communicate mathematical ideas both orally and in writing.
- learn and master strategies and techniques to solve contest problems.
- be able to coach middle and high school students for math competitions.

## 3 Study Plan
There is no textbook. The course will be based on the material uploaded weekly in the CourseDen. For each topic, problems will be posed. Students try to solve problems individually, then discuss and exchange ideas. If you need help or would like to discuss problems with me, the best way is to visit my office during the office hours or simply email me.

## 4 Grading and Evaluation
There will be two tests worth 10% each; a number of assignments together worth 60%; and a comprehensive proctored final exam worth 20%. Letter grades will be based on the following percentages.

| 90-100: A | 80-89: B | 70-79: C | 60-69: D | 0-59: F |
5 Policies

Late Assignments:
Late assignments within 3 days after the due date will be penalized 40% each; no assignment will be accepted more than 3 days after the due date.

Common university policies:
For important policy information, i.e., the UWG Honor Code, Email, and Credit Hour policies, as well as information on Academic Support, Online Courses and Campus Carry, etc, please review the Common Language for Course Syllabi: https://www.westga.edu/UWGSyllabusPolicies/
You should read this at the beginning of each semester.

The instructor retains the right to modify this syllabus to better serve the course objectives.