

## COURSE INFORMATION

<https://sites.google.com/a/westga.edu/jkang/teaching/math-6663>

## 1. General Information

**Instructor:** Dr. Jeong-Hyun Kang

**Course Website:** <https://sites.google.com/a/westga.edu/jkang/teaching/math-6663> (This is NOT CourseDen but through my UWG website.)

**E-mail Address:** [jkang@westga.edu](mailto:jkang@westga.edu) (*Best way to contact me!*)

**Office:** Boyd 328

**Office Hours:** Tue 12-12:30 & 2-3:30; Thu 12:12:30 & 3-5:30

**Textbook:** We will not have any official textbook. The necessary material will be uploaded on the Course Website.

**Course Description:** This is the second problem solving course in the area of geometry and graphs. It is to expose students to middle and high school mathematics contest problems and to help them discover efficient problem solving strategies. The students will learn the basic results and tools, then are invited to solve typical problems. The hints will be provided by the instructor as needs be. Students will gradually be introduced to various classical problems.

**Learning outcomes:** The students are expected to

- gain and improve their skills in problem solving in geometry and graphs,
- reduce and simplify complex system
- acquire practical knowledge of a wide range of mathematical techniques,
- learn to communicate mathematical ideas both orally and in writing,
- be able to coach middle and high school students for math competitions.
- be able to solve Math contest problems from AMC 8, AMC 10/12, and Math Counts.

## 2. Study Plan

**Lecture:** There is no textbook. The course will be based on the material uploaded in this course website once or twice a week as needed. Considering it's a problem solving online course, the lecture will be comprised mainly in the format of "Exercises" or "Problems". Hints will be provided by the instructor as needed.

**Assignments:**

- Some of the easier questions will be asked to submit within two days to ensure you follow the lecture in a timely manner. **No late submission will be accepted** for this type of submission.

- Some of the harder questions will be asked to submit in the following week. **Late submission will be accepted with reduced rate as follows:** 100% of your score if submitted by the due date; 90% if submitted within three days after due date; 70% if submitted within one week after due date. No assignment will be accepted in a week after the due date.

**One take-home exam:** in late Feb. or early March

**One proctored exam:** *tentatively* Thursday, May 2, 11:00 am-1:00 pm

### 3. Grading Policy

#### **Submission of Assignments and the take-home exam:**

Submit an electronic file through an email. It can be typed (preferable) or handwriting and scanned. Either way, your solution should be clearly legible.

#### **All the submission including the proctored exam:**

**Your arguments of the solutions and proofs are expected to be logically presented at math graduate level.** Scribbled ideas or a final answer without showing procedure won't earn any credit.

**Posting your grades:** Your scores will posted in "your 6663 folder".

#### **Grading and Evaluation**

- Assignments 100 pts
- One take home exam 50 pts
- One proctored exam 50 pts
- Extra credit points at my discretion.
- 200 points total:  $\geq 90\%$  A;  $\geq 80\%$  B;  $\geq 70\%$  C; below 70% F

### 4. University Policies

Please carefully review the following information at

<https://www.westga.edu/UWGSyllabusPolicies/> or

<https://www.westga.edu/administration/vpaa/common-language-course-syllabi.php>.

It contains important material pertaining to your rights and responsibilities in this class, such as **Honor Code, UWG Email Policy, Credit Hour Policy, and Accessibility Services** (*also provided on the next pages*). In a word, be responsible and do your work.

## **Academic Support**

**Accessibility Services:** Students with a documented disability may work with UWG Accessibility Services to receive essential services specific to their disability. All entitlements to accommodations are based on documentation and USG Board of Regents standards. If a student needs course adaptations or accommodations because of a disability or chronic illness, or if he/she needs to make special arrangements in case the building must be evacuated, the student should notify his/her instructor in writing and provide a copy of his/her Student Accommodations Report (SAR), which is available only from Accessibility Services. Faculty cannot offer accommodations without timely receipt of the SAR; further, no retroactive accommodations will be given. For more information, please contact Accessibility Services.

**University Writing Center:** The University Writing Center assists students with all areas of the writing process. For more information, contact them: 678-839-6513 or [writing@westga.edu](mailto:writing@westga.edu)

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It contains important material pertaining to your rights and responsibilities in this class. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.

**Honor Code:** At the University of West Georgia, we believe that academic and personal integrity are based upon honesty, trust, fairness, respect, and responsibility. Students at West Georgia assume responsibility for upholding the honor code. West Georgia students pledge to refrain from engaging in acts that do not maintain academic and personal integrity. These include, but are not limited to, plagiarism, cheating, fabrication, aid of academic dishonesty, lying, bribery or threats, and stealing.

The University of West Georgia maintains and monitors a confidential Academic Dishonesty Tracking System. This database collects and reports patterns of repeated student violations across all the Colleges, the Ingram Library, and the School of Nursing. Each incidence of academic dishonesty is subject to review and consideration by the instructor, and is subject to a range of academic penalties including, but not limited to, failing the assignment and/or failing the

course. Student conduct sanctions range from verbal warning to suspension or expulsion depending on the magnitude of the offense and/or number of offenses. The incident becomes part of the student's conduct record at UWG.

Additionally, the student is responsible for safeguarding his/her computer account. The student's account and network connection are for his/her individual use. A computer account is to be used only by the person to whom it has been issued. The student is responsible for all actions originating through his/her account or network connection. Students must not impersonate others or misrepresent or conceal their identities in electronic messages and actions. For more information on the University of West Georgia Honor Code, please see the Student Handbook.

**UWG Email Policy:** University of West Georgia students are provided a MyUWG e-mail account. The University considers this account to be an official means of communication between the University and the student. The purpose of the official use of the student e-mail account is to provide an effective means of communicating important university related information to UWG students in a timely manner. It is the student's responsibility to check his or her email.

**Credit Hour Policy:**

The University of West Georgia grants one semester hour of credit for work equivalent to a minimum of one hour (50 minutes) of in-class or other direct faculty instruction AND two hours of student work outside of class per week for approximately fifteen weeks. For each course, the course syllabus will document the amount of in-class (or other direct faculty instruction) and out-of-class work required to earn the credit hour(s) assigned to the course. Out-of-class work will include all forms of credit-bearing activity, including but not limited to assignments, readings, observations, and musical practice. Where available, the university grants academic credit for students who verify via competency-based testing, that they have accomplished the learning outcomes associated with a course that would normally meet the requirements outlined above (e.g. AP credit, CLEP, and departmental exams).