

subject to change<https://sites.google.com/a/westga.edu/math-2644/>**Class Hours & Classroom(s):**

Tue Thur 11:00 am - 12:15 pm, Boyd 303

Fri 11:00 am - 11:50 am, Boyd 304

Instructor: Dr. Jeong-Hyun Kang**Course Website:** <https://sites.google.com/a/westga.edu/math-2644/> (This is NOT CourseDen but through my UWG website.)

Alternatively, you can find a link to the course web from my UWG webpage

<https://www.westga.edu/~jkang/> that can be found by Google search or in a natural way:

UWG Math department homepage → Faculty and Staff list (under About Us) →

Jeong-Hyun Kang; you can find a link to my UWG website.

E-mail Address: jkang@westga.edu (*Best way to contact me!*)**Office:** Boyd 328**Office Hours:** *tentative* Tue 10:30-11 & 2-3:30; Thur 10:45-11 & 2-3:30; Fri 10:45--11 & 1-2**Textbook:** Stewart, Calculus, Single Variable, Volume 2, Early Transcendentals, 7th Edition.**Course Description:** The second course in calculus sequence. The definite integrals and applications, calculus of transcendental functions, standard techniques of integration, sequences and series.**Learning outcomes:** The student will be able to

- Compute the areas between curves
- Compute the volumes of solids of revolution by cross-sections and cylindrical shells
- Find the antiderivatives using techniques of integration by parts, trigonometric integrals, trigonometric substitution, partial fractions
- Find improper integrals
- Compute the arc length of a curve and the surface area of a surface of revolution
- Solve applied problems in physics and engineering
- Understand polar coordinates
- Compute the areas and arc lengths of curves in polar coordinates
- Understand conic sections and conic sections in polar coordinates
- Determine whether a sequence converges or diverges
- Determine whether a series converges conditionally, converges absolutely, or diverges using geometric series, p -series, the comparison test, the limit comparison test, the integral test, the ratio test, the root test, and alternating test
- Determine the radius of convergence and the interval of convergence of a power series
- Compute the Taylor series and Maclaurin series of a function

Homework:

- Homework will be assigned almost every class. Homework problems will not be specified during class but will be posted only on the Class Log of the course website

given above. Hence, it is essential for you to check the course webpage almost everyday.

- Although it will **not** be collected and graded, you are strongly encouraged to do all of the problems in order to completely master the materials studied in class, and to prepare for quizzes and exams.

Quiz:

- On (most of) Tuesdays, we will have 10-minute (or so) quizzes in the beginning of the classes.
- It usually covers the materials from the previous week. The questions on the quizzes will be mostly of the "quickie" variety which can be answered on the spot, without much calculations. If you attend the lectures and are diligent in doing the homework assignments, you should have no problems with the quizzes.
- **Missed quizzes cannot be made up for any reason**, and instead, **two lowest scores** will be dropped at the end of the semester: These two lowest grades include all the missed quizzes due to your being sick or going out for official university trips. If you have to miss more than two quizzes due to official university field trips, I can drop one more missed quiz but not more than that.

Hour Exam:

- There will be 5 one-hour exams. (More detailed section numbers of the chapters will be provided before each exam)
 - Exam 1 (100 pts) Tue 9/11: Reviews and most of Ch 7
 - Exam 2 (50 pts) Fri 9/21: Ch 6, Ch 8
 - Exam 3 (50 pts) Tue 10/2: Reviews, Sections 7.8 and 11.1
 - Exam 4 (100 pts) Tue 11/13: Ch 11 (Series)
 - Exam 5 (100 pts) Fri 12/7: Ch 10
- If the student has a **provable excuse** (such as an official university field trip or doctor's note) and **notify me well in advance** (at least one week earlier), then missed hour exams may be made up **prior to the actual test date**. Somebody's wedding or gathering with a boy/girl friend after several months are NOT appropriate excuses.
- In case an unforeseen case occurs (such as sudden illness the day before the exam) and you cannot take an hour exam, notify me **before** the exam starts. You will not take a make-exam in this case. Instead, an appropriate part of the final exam will substitute the missing exam. This method can be applied only **one time**; you cannot fall sick whenever take hour exams.

Final Exam:

- The final exam is scheduled for **Tuesday, Dec. 11, 11:00-1:00 pm**.
- If you have a conflict, let me know within the first week of the semester.
- No make-up final!!!

Grading Policy:

- Grading scale:
 - Quiz 100 points; The quiz total may be scaled to 100 points if necessary at the end of the semester.
 - Five hour exams 400 points total.

- Final 200 points
- 700 points total: $\geq 90\%$ A; $\geq 80\%$ B, $\geq 70\%$ C; $\geq 60\%$ D; below 60% F
- A final answer without showing procedure won't earn any credit in quizzes or exams. Showing appropriate steps of your work matters!
- No calculator during the quizzes and the exams.
- No curve! No extra credit!

Other Class Policies:

- Sections covered, homework problems, and announcement of quizzes will be posted on the Class-Log of the course website after every class. Hence, it is essential for you to check the course webpage almost everyday.
- Email communications regarding the course should be done only in the domain of westga.edu.
- Attendance: I don't count attendance in each class. However, if you miss weekly quizzes in a row in the beginning of the semester, your attendance will be recorded as "never attended" on BanWeb.
- Classroom Behavior: You are expected not to disturb your classmate's learning.

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. Because these statements are updated as federal, state, university, and accreditation standards change, you should review the information each semester.