

MATH 1413, Survey of Calculus, Spring 2020

Section: 04 **Hours Credit:** 3 hours

Room and Hours: Boyd 303: TTh, 12:30 pm - 01:45 pm

Prerequisite: MATH 1111 or MATH 1113 with C or better

Instructor: Dr. Kwang Shin

Office Hours: TTh (11:00 am – 12:25 pm and 1:45 pm -- 2:30 pm)

F (10:45 am – 12:30 pm) or by appointment.

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Course Webpage: <http://www.westga.edu/~kshin/1413/>

Course Description: This course will provide a survey of the differential and integral calculus of polynomial, rational, exponential, and logarithmic functions with an emphasis on applications to problems from business, economics and life sciences.

Text: *Calculus and Its Applications, 11th Edition*, by Marvin L. Bittinger, David J. Ellenbogen, and Scott Sargent, Pearson Education Inc. We plan to cover sections 1.1--1.3, 1.5--1.7, 2.1, 2.2, 2.4--2.8, 3.1, 3.2, 4.2, 4.3, 4.5.

Learning Outcomes: The student will be able:

- To compute limits,
- To differentiate polynomial, rational, exponential, and logarithmic functions,
- To apply differential calculus to problems from business, economics, and life science,
- To integrate polynomial, rational, exponential, and logarithmic functions,
- To apply the Fundamental Theorem of Calculus,
- To apply integral calculus to problems from business, economics, and life science, and
- To understand the basic techniques of integration.

Hour Exams: Exam 1 (Tue, Feb 4), Exam 2 (Thu, Mar 12), Exam 3 (Thu, Apr 16).

Final Exam: Thursday, April 30, 11:00 am -- 1:00 pm. The final exam will be cumulative.

Homework: Homework will be assigned almost every day and posted at the course website. Homework will be collected at the beginning of the next class for grade. Doing homework in timely fashion is essential for the success in this course. Partial credit will be considered for incomplete work. However, **late submission will receive zero point.** If you are not able to come to class for any reason, send in the homework by email before the class begins. The total homework score will be converted to a 70 point scale at the end of semester.

Quizzes: There will be a quiz on almost every Thursday consisting of problems that are *almost identical* to homework problems. If we need to take a quiz on a different day of a week, it will be announced in advance in class. Each quiz will be 10 points and two lowest scores will be dropped. If needed, the total quiz score will be converted to an 80 point scale at the end of semester.

Grade Scale:	3 hour exams	300 points (100 points each)
	Quizzes	80 points

Homework	70 points
Final	200 points

Total	650 points

A: 585 - 650, B: 520 - 584, C: 455 - 519, D: 357 - 454, F: 0 – 356

February 28 is the last day to withdraw from a class with a grade of W.

Attendance and Pop-up Quizzes: Attendance is required and expected. Students are responsible for all material covered in class and all announcements made. An undetermined number of pop-up quizzes may be given for extra points. Such a quiz will consist of one problem, discussed during the same class. *It will count as absent if you are not present when the attendance is checked.*

If you have no absence, you will get 10 bonus points at the end and for each absence, you will get 5 points less. For example, if you miss 3 classes in total, you will get 10 minus 15, resulting -5 points and if you miss 5 classes, you will get -15 points. These absences exclude absences due to official university activities if approved by the instructor in advance or well-documented illness.

Make-up: There will be no make-up quiz. In general, make-up exams will *not* be given *after* the scheduled exam date. There will be no make-up final except when a conflict with other finals occurs. If a conflict occurs to you, please inform the instructor at least two weeks in advance. Make-up hour exams will be granted for official university activities if the student notifies the instructor at least a week in advance and for well-documented illness.

Classroom Behavior: You are expected not to disturb your classmate's learning. No phone or computer use during class without instructor's permission. **No earbuds and headphones are allowed during class (1 point will be taken away from your total score for each use of earbud or headphone).**

Also, 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.