

Math 1432

Section 12498

Instructor: James West, 620 PGH, jdwest@math.uh.edu.

Office Hours: Monday and Wednesday 2-4 pm in 620 PGH

Course Homepage: <http://online.math.uh.edu/courses/math1432/index.php?page=home>

Course Learning Materials: The textbook, online quizzes, EMCF assignments, and additional help materials will be made available by logging into *CourseWare* at <http://www.casa.uh.edu>. These first portion of these materials are freely available for the first two weeks of class. All students must purchase a **Course Access Code** and enter it on *CourseWare* by the first day of the third week of class to continue accessing the course learning materials. A **Course Access Code** can be purchased for about \$55 from the University Bookstore.

The material covered in the course is listed below:

Chapter 7 - Applications of Integration

- 7.1 Integration Review
- 7.2 Area
- 7.3 Volume
- 7.4 Centroids
- 7.5 Arc Length and Surface Area
- 7.6 Differential Equations and Exponential Growth/Decay
- 7.7 Improper Integrals

Chapter 8 - Techniques of Integration

- 8.1 Integration by Parts
- 8.2 Powers of Trigonometric Functions
- 8.3 Trigonometric Substitutions
- 8.4 Integrating Rational Functions
- 8.5 Numerical Integration

Chapter 9 - Sequences and Series

- 9.1 Sequences and Convergence
- 9.2 Numerical Series and Convergence
- 9.3 Tests for Convergence
- 9.4 The Power Series
- 9.5 The Taylor Series

Chapter 10 - Polar Coordinates and Parametric Equations

- 10.1 Polar Coordinates and Polar Curves
- 10.2 Area and Arc Length in Polar Coordinates
- 10.3 Parametric Equations
- 10.4 Derivatives for Curves Given Parametrically
- 10.5 Arc Length for Curves Given Parametrically
- 10.6 Surface Area

Online Live Lectures: 3:30-5:30 pm Tuesdays and Thursdays. Video recordings will be posted on the course webpage. Students are given an attendance grade for each week of the course. Attendance points can be earned by attending the live lectures or submitting the Alternate Assignment. There will be 5 attendance questions (poppers) in each lecture and 10 questions on the alternate assignment. The grade is determined by summing all points earned for a given week, with the maximum grade being 10. **Students who do NOT attend an online live meeting will be required to complete an alternate assignment to replace their daily in-class grade. If you do not like your popper score from class, you can complete the alternate assignment for extra credit.**

Lab Quizzes: 5% of your average will come from lab quizzes (given during recitation). You will answer the questions online using an EMCF. "EMCF" stands for "Electronic Multiple Choice Form" and are answered on *CourseWare* using the EMCF tab. All of these grades are out of 10 points each. See the *CourseWare* handout for more information.

Homework: 5% of your average will come from homework. Homework is submitted online through *CourseWare*. Instructions are given in the *CourseWare* handout located on the class webpage. No late homework is accepted. Homework is graded on accuracy. All of these grades are out of 10 points each.

Online Quizzes: There will be 2-3 online quizzes given each week. You can attempt these quizzes up to 20 times, and the highest grade will be used for your score. You can access the quizzes by logging into *CourseWare* at <http://www.casa.uh.edu>. Quizzes will not reopen once they have closed.

Exams: All sections of Math 1432 take common exams. Four regular exams will be given during the semester. The first exam is an online exam that will be available by the first day of class at <http://www.casa.uh.edu>. The other three exams will be given in CASA (note the test location when you register). You can access the scheduler for these exams by logging into *CourseWare* at <http://www.casa.uh.edu>. The exams given in CASA will consist of both multiple choice and written questions. The multiple choice questions will be machine graded. The written questions will be graded by the instructors and teaching assistants for all sections of Math 1432, and they will be returned during office hours. The scheduler will be available 2 weeks prior to the start of the exam cycle. There are no make-ups for missed exams. Your final

exam grade will replace your lowest test grade. If you live outside of the Houston area, you may ask for permission to have your exams proctored at a location in your area. For more information see <http://www.uh.edu/distance/student-resources/proctoring/>.

Final Exam: A comprehensive final exam will be given in CASA. You can access the scheduler for this exam by logging into *CourseWare* at <http://www.casa.uh.edu>. The final exam is MANDATORY for this class.

Grades:

Test 1 - 5%

Tests 2, 3, 4 - 15% each

Final exam - 25%

Lab Quizzes - 5%

Homework - 5%

Online Quizzes - 10%

In-class Poppers and Attendance - 5%

Note: The percentage grade on the final exam can be used to replace your lowest test score.

90% and above - A

at least 80% and below 90% - B

at least 70% and below 80% - C

at least 60% and below 70% - D

below 60% - F

Attendance is Mandatory!! Attendance will be taken in lab, and the daily poppers will be used to determine your attendance in lecture.

Whenever possible, and in accordance with 504/ADA guidelines, we will attempt to provide reasonable academic accommodations to students who request and require them.