Instructor: Rebecca George, 639 PGH, bekki@math.uh.edu.

Office Hours: See http://www.math.uh.edu/~bekki/

Course Homepage: http://www.casa.uh.edu

Learning Objectives:
The student will master the following:
- Integration Techniques and Applications
- Sequences and Series
- Polar Coordinates
- Parametric Equations

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

Daily Poppers: Daily grades will be given in lecture beginning the first day of the third week of class. You need to purchase a course packet of Popper Forms for Math 1432 with your section number from the BOOK STORE. You must bring one of these forms to class every day beginning week 3. No other form will be accepted. Questions will be asked in lecture at random times. You will mark your answers on your form and drop the form in a box at the end of class. Your forms will not be returned. If you are caught filling out multiple popper forms, you will lose attendance credit for that day.

Lab Quizzes: 5% of your average will come from lab quizzes, which will be given during recitations beginning in week 2. Lab quiz grades are out of 10 points each. I will drop the one lowest lab quiz grade at the end of the semester.

Homework: 7% of your average will come from homework (written and EMCF). Written homework is submitted in recitation beginning week 2. "EMCF" stands for "Electronic Multiple Choice Form". EMCF assignments are answered on CourseWare using the EMCF tab. The EMCF assignment questions will be posted on the course calendar page on CourseWare at http://www.casa.uh.edu. Please see the course calendar page for more information. Homework grades are out of 10 points each. I will drop the two lowest homework grades at the end of the semester.

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. I will drop the one lowest online quiz grade at the end of the semester.

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. You have no more than two attempts for exam one. 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 in lab. 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 it is higher.
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.

Exam Dates:

Test 1 (online) Due 1/28/17
Test 2 (50 minutes) 2/20 – 2/22/17
Test 3 (50 min) 3/20 – 3/22/17
Test 4 (50 min) 4/15 & 4/17 – 4/18/17
Final Exam (110 min) 5/7 – 5/10/17

Grades:

Test 1 - 5%
Tests 2, 3, 4 - 15% each
Final exam - 25%
Lab Quizzes - 5%
Homework (written and EMCF) - 7%
Online Quizzes - 10%
In-class Poppers and Attendance - 3%

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. I will allow you a total of 3 unexcused absences from lecture and lab (total). Documented University of Houston excused absences will be permitted.

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