Mathematics 2425 **Calculus II Syllabus**

Mathematics Lecture 2425 − 100(50802)
Lecturer: **Aubrey Rhoden**
Lab 2425 − 101(50803)
GTA: **Wilber Ventura**

NOTE: You cannot receive credit for this course unless you are registered for 2425 − 100 and 2425 − 101

Instructor **Aubrey Rhoden**

Office	PKH 404	**Email**	aubrey.rhoden@mavs.uta.edu
Phone	817-272-0166(Office) 817-272-3261(Math Department)	**Office Hours**	Mon. 4:30-6:00 pm Wed. 4:30-6:00 pm

GTA: 2425-101 **Wilber Ventura**

Office	PKH 404	**Email**	wilber.ventura@mavs.uta.edu
Phone	817-272-0166 817-272-3261(Math Department)	**Office Hours**	Mon. 9:00-10:00 pm Wed. 9:00-10:00 pm

Class Meetings Lecture(2425-100):
Mon. and Wed. 6:00-7:50 pm in PKH 321
Lab(2425-101):
Mon. and Wed. 8:00-8:50 pm in PKH 305

Textbook *CALCULUS, EARLY TRANSCENDENTALS, CUSTOM EDITION FOR UT-ARLINGTON, BY SOO T. TAN*
Register for WebAssign at http://webassign.net/
Class Key for 2425-100: uta 2026 0768

**If you purchased your book new, you receive an access code for WebAssign. Otherwise, you will need to purchase this. There is a 14-day trial period before action is needed regarding purchasing access.

Course Prerequisite A grade of C or above in Math 1426 (Calculus 1)

Website: https://www.uta.edu/ra/real/editprofile.php?onlyview=1&pid=6158

Class Format The instructor and the GTA will incorporate cooperative learning activities in lecture and lab sections as well as other active learning strategies during the semester. *You are expected to participate fully in these activities.*

You will need to have $8-10$ hours available weekly to study outside of class in order to succeed in this course.

UT-Arlington Department of Mathematics
Learning Outcomes for M2425

- compute the area between two curves, in both rectangular and polar coordinates; compute volumes and surface areas of solids of revolution, in both rectangular and polar coordinates; compute arc length of both polar and rectangular curves
- compute the value of integrals by the methods of integration by parts, trigonometric substitutions, and partial fractions
- compute the value of improper integrals
- compute limits of sequences and series
- determine the radius of convergence of power series; differentiate and integrate power series
- represent a known function as a Taylor series; approximate a known function with a Taylor polynomial and determine the error involved
- compute the standard representation of a vector in 3-space, compute the dot product and cross product of vectors
- write equations of lines, planes, and quadric surfaces in 3-space
- justify and explain their steps in problem solving. In particular, students should be able to construct correct and detailed mathematical arguments to justify their claimed solutions to problems

Electronic Communication Statement:
From the UT-Arlington Undergraduate Catalog: E-mail is a prime means for communication. Therefore, the University has the right to send communications to students via e-mail and the right to expect that those communications will be received and read in a timely fashion. The Office of Information Technology (OIT) will assign all students an official University e-mail address. It is to this official address that the University will send e-mail communications. Students are expected to check their official e-mail account on a frequent and consistent basis to stay current with University communications. The University recommends checking e-mail daily in recognition that certain communications may be time-critical.

Details About the Course

Midterms and Finals:

Midterm Exam 1	Wed. Jun. 19 6-8pm	20%
Midterm Exam 2	Mon. Jul. 15 6-8pm	25%
Lab Grade		
	Weekly quizzes	5%
	Homework	5%
	Lab worksheets	10%
Final Examination	Wed. Aug. 7 6-8pm	35%

The final exam has a grade weight of 35%; however, any student who scores below 50 on the final exam cannot receive a grade higher than a D in the course.

Midterms and Finals: These exams are departmental, i.e., all sections of Math 2425 will take the same exam and the grades will have the same weight in each section. All of these exams are comprehensive. Each exam will be a mix of multiple choice problems and show-your-work problems.

Make-up Policy: If you have a conflict with either midterm or final you must contact the contact the instructor two weeks in advance of the exam. There will be no make-up exams, homework or quizzes without documentation of the appropriate excuse. Work is not an excuse.

Drop Policy: The last day this semester to drop a course is July 18. Any student who drops the course on or before July 18 at 5 p.m. will receive a W. **Students must consult their major advisor in order to drop a course.**

Weekly Quizzes and Homework: Suggested homework will be assigned each day. Online homework assignments have already been made and are already available on Webassign. Your homework grade will be based upon your online homework average. You will be given in-class (during lab meetings) and online (via Webassign) quizzes which assume your having completed and mastered the suggested homework. Your 10 best quiz grades will be used to calculate your quiz average.

Attendance: Attendance for this course and its associated labs is required. Excellent attendance records as well as positive group evaluations will help your grade in that borderline course-grade decisions will be influenced by these records. It is in your best interest to arrive on time to class (quizzes take place during the first ten minutes of class and lab homework is due at the beginning of class)

Lab Information: Again, attendance is required. In the lab, you will:

- have the opportunity to ask for guidance on homework questions
- take weekly quizzes (except for weeks in which midterms are given)

based upon mastery of the suggested homework assignments; and

- participate in problem-solving activities from Lab Worksheets. This is 50% of your lab grade (10% of your total course grade)

Instructions for solutions submitted:

- Work should be done in pencil and erasers should be clean and complete
- Problems should be written in order and include the page number and the problem number, i.e. $p26\#5$, if appropriate
- Write on one side of the paper only
- If you tear the page from a spiral notebook, trim the curly edges
- Papers must be stapled together (upper left hand corner) and folded in half lengthwise
- On the outside write your name, date, and assigned problems
- If these guidelines are not followed, your paper will not be graded and you will receive 0 points on that work

Calculators: The only calculators allowed for the midterms and final are $TI-30XA$ and $TI-30XIIS$

If you wish to use a different calculator, then you must get permission to do so BEFORE an exam. Only nonprogrammable calculators with basic computational features, such as arithmetic and transcendental functions will be allowed. Calculators with the following features are NOT allowed: graphing, equation solving, differentiation and integration. Any device that has internet or e-mail capabilities this means NO cell phones - and any device with a QWERTY keyboard are also not permitted.

Help outside of class time: My office hours are given above. These are times when I will be available in my office to discuss the material/homework/tests. No appointment is necessary for those times. If, however, those times are inconvenient for you, then make an appointment with me for another time (e.g., email me stating the time you prefer). Please use the subject heading "Math 2425 Student Question" when sending Mr. Rhoden e-mail and identify yourself (full name) in the communication.

Student Services Available: The University of Texas in Arlington provides provides a variety of resources and programs designed to help students develop academic skills, deal with personal situations, and better understand concepts and information related to their courses. These resources include tutoring, major-based learning centers, developmental education, advising and

mentoring, personal counseling, and federally funded programs. Students requiring assistance academically, personally, or socially should contact the Office of Student Success Programs at $817 - 272 - 6107$ for more information and appropriate referrals.

The Math Department operates the **Math Clinic**, a tutoring service staffed by upper level undergraduate students. When you registered for this course, you were assessed a fee which allows you unlimited access to the Math Clinic. You will need to show your MAV ID to use the Math Clinic. There are tables where you may study on your own or quietly with other students. Each table has a flag which you can raise to indicate that you need help from a tutor. The Math Clinic is in room 314 PKH; the phone number is $817 - 272 - 5674$; and the hours of operation are Monday through Thursday from 8 am to 9 pm, Friday 8 am to 1 pm, Saturday 1 pm to 6 pm, Sunday 1 pm to 9 pm. Go to the Math Clinic webpage http://www.uta.edu/math/clinic to get more information or to access assignment sheets for the courses for which tutoring is offered.

The **SOAR** program is an academic support program that provides individuals tutoring, counseling, seminars, graduate school preparation, course reviews, study groups, and other support services by trained staff dedicated to helping UT Arlington students reach their full academic potential. Go to http://uta.edu/soar for more details.

All previous midterm exams and some previous final exams are available to students in the Science Education and Career Center (SECC), 106 Life Science Building. The fall and spring hours of operation are Monday-Thursday 9am - 6pm Friday 9am - 1pm Saturday Closed Sunday Closed. You need a Mav ID Card to check out these exams. A copy machine is available for you to make copies. There are also video tapes of lectures on calculus topics that can be viewed in the SECC. For more information go to http://www.uta.edu/cos/SECC/login.php

You may access previous midterms and some of the finals online. Go to https://mavspace.uta.edu/xythoswfs/webview/$\_xy - 698342\_1$. The solutions to the multiple choice questions are available at https://mavspace.uta.edu/xythoswfs/webui/$_xy - 1084452_1 - t$_BulwoeEK.

The Math Department maintains a list of people who have expressed an interest in tutoring. These persons are not necessarily recommended by the Math Department and they set their own fees. You may obtain a copy of the tutor list in the Math Office, 478 PKH.

Cell Phone, Beeper, & Chiming Watch Etiquette:

- Cellular phones should be either switched off or set to silent mode during

all classes. Cellular phone use will not be permitted in class. If you must take an important call please leave the classroom.

- Cellular phones are prohibited during exams
- Beepers should be either switched off or set to silent mode during all classes and during tests.
- You should assure that watches with alarms and chirps will not sound during class.

Since lecture and lab focus on interpersonal communication, students must request permission to use a laptop during class or lab time.

Important dates:

June 3	First Day of Classes
June 3-4	Late Registration
June 19	Midterm 1
June 20	Census Date
July 4	Independence Day
July 15	Midterm 2
July 18	Last Day to Drop
August 4	Last Day of Classes
August 7	Final Exam

Americans with Disabilities Act: The University of Texas in Arlington is on record as being committed to both the spirit and letter of federal equal opportunity legislation; reference Public Law 93112 - The Rehabilitation Act of 1973 as amended. With the passage of new federal legislation entitled Americans with Disabilities Act (ADA), pursuant to section 504 of the Rehabilitation Act, there is renewed focus on providing this population with the same opportunities enjoyed by all citizens.

As a faculty member, I am required by law to provide **"reasonable accommodation"** to students with disabilities, so as not to discriminate on the basis of that disability. Student responsibility primarily rests with **informing faculty at the beginning of the semester and in providing authorized documentation through designated administrative channels.**

If you require an accommodation based on disability, I would like to meet with you in the privacy of my office, during the first week of the semester, to make sure you are appropriately accommodated.

Academic Dishonesty: It is the philosophy of the University of Texas in Arlington that academic dishonesty is a completely unacceptable mode of conduct and will not be tolerated in any form. All persons involved in academic dishonesty will be disciplined in accordance with University

regulations and procedures. Discipline may include suspension or expulsion from the University.

"Scholastic dishonesty includes but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributed in whole or in part to another person, taking an examination for another person, any act designed to give unfair advantage to a student or the attempt to commit such acts." (Regent Rules and Regulations, Part One, Chapter IV, Section 3, Subsection 3.2, Subdivision 3.22)

UT Arlington Honor Code: I pledge, on my honor, to uphold UT Arlingtons tradition of academic integrity, a tradition that values hard work and honest effort in the pursuit of academic excellence. I promise that I will only submit work that I personally create or contribute to group collaborations, and reference any work from other sources. I will follow the highest standards of integrity and uphold the spirit of the Honor Code.

Grade Replacement and Grade Exclusion Policies: These polices are described in detail in the University catalog and can also be found online at http://www3.uta.edu/catalog/content/general/academic_regulations.aspx#10 (Scroll a little more than halfway down the page)

Student Disruption: The University reserves the right to impose disciplinary action for an infraction of University policies. For example, engagement in conduct, alone or with others, intended to obstruct, disrupt, or interfere with, or which in fact obstructs, disrupts, or interferes with, any function or activity sponsored, authorized by or participated in by the University.

Drop for Non-Payment of Tuition: If you are dropped from this class for non-payment of tuition, you may secure an Enrollment Loan through the Bursar's Office.