

University of North Texas at Dallas

Fall 2024

Syllabus

MATH 2414 – 0001: Calculus II (4hr)		
Department of	N	School of Liberal Arts and Sciences
Instructor Name:	Richard Chandler	
Office Location:	FH 228	
Office Phone:	972 – 338 – 1588	
Email Address:	Richard.Chandler@untdallas.edu	
Office Hours:	T/Th 11:30a – 1p	
Classroom Location:	DAL1 308	
Class Meeting Days & Times:	TR 1:00p – 3:00p	
Course Catalog Description:	Differentiation and integration of exponential, logarithmic and transcendental functions; integration techniques; indeterminate forms; improper integrals; area and arc length in polar coordinates; infinite series; power series; Taylor's theorem.	
Prerequisites:	C or better in MATH 2413 or equivalent	
Required Text:	WebAssign Access Code – Accessed through Canvas	
Access to Learning Resources:	UNT Dallas Library: (972) 780-1616 UNTD Library Webpage , email: library@untdallas.edu	UNT Dallas Bookstore: (972) 780-3652 UNTD Bookstore Webpage , e-mail: untdallas@bkstr.com
Supported Browsers: Chrome Firefox Flash 28, 29 (for audio/video) Internet Explorer 11 Safari 10, 11 Supported Devices: iPhone Android Chromebook (Tablet users can use the Canvas app)	Getting Help with Canvas: Canvas 24 /7 Phone Support for Students: 1-833-668-8634 Canvas Help Resources: https://community.canvaslms.com/docs/DOC-10701 For additional assistance, contact Distance Learning: DAL1, Ste 150, email: distancelearning@untdallas.edu <i>If you are working with Canvas 24/7 Support to resolve a technical issue, make sure to keep me updated on the troubleshooting progress. If you have a course-related issue (course content, assignment troubles, quiz difficulties) please contact me during office hours or by email.</i>	
Course Goals or Overview: The goals of this course are as follows:		
1	Critical Thinking Skills – to include thinking, innovation, inquiry, and analysis, evaluation and synthesis of information.	
2	Communication Skills – to include effective development, interpretation & expression of ideas through written, oral and visual communication.	
3	Empirical and Quantitative Skills – to include the manipulation and analysis of numerical data or observable facts in informed conclusions	
Learning Objectives/Outcomes: At the end of this course, students will be able to:		
1	Use the concepts of definite integrals to solve problems involving area, volume, work, and other physical applications.	
2	Use substitution, integration by parts, trigonometric substitution, and partial fractions to evaluate integrals.	
3	Apply the concepts of limits, convergence, and divergence to evaluate some classes of improper integrals	
4	Determine convergence or divergence of sequences and series.	
5	Use Taylor and MacLaurin series to represent functions.	
6	Use the concept of polar coordinates to find areas, lengths of curves, and representations of conic sections.	

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated in class or via class email or Canvas announcement.

Week	Date	Topics	Assignments Due Date
1	8-27	7.1 – Integration by Parts	9/5/2024
	8-29	7.2 – Trigonometric Integration	
2	9-3	7.-3 – Trigonometric Substitution	9/12/2024
	9-5	7.4 – Partial Fractions	
3	9-10	7.5 – Improper Integrals	9/19/2024
	9-12	6.2 – Volumes by Cross-Sections	
4	9-17	6.3 – Volumes by Shells	9/26/2024
	9-19	Review 1	
5	9-24	Midterm 1	
	9-26	8.1 – Arc Length	10/3/2024
6	10-1	10.1 – Parametric Equations	10/10/2024
	10-3	10.2 – Calculus of Parametric Equations	
7	10-8	10.3 – Polar Coordinates	10/17/2024
	10-10	10.4 – Calculus of Polar Coordinates	
8	10-15	11.1 – Sequences	10/24/2024
	10-17	11.2 – Series	
9	10-22	Review	
	10-24	Midterm 2	
10	10-29	11.3 – Integral Test	11/7/2024
	10-31	11.4 – Comparison Tests	
11	11-5	11.5 – Alternating Series Test	11/14/2024
	11-7	11.6 – Absolute Convergence	
12	11-12	11.8 – Power Series	11/21/2024
	11-14	11.9 – Representations of Power Series	
13	11-19	11.10 & 11.11 – Taylor Series	12/5/2024
	11-21	No Class – Conference	
14	11-26	Review	
	11-28	No Class – Thanksgiving	
15	12-3	Midterm 3	
	12-5	Review	

Course Evaluation Methods

Participation

Attendance and participation in class is required. Failing to attend class, being excessively tardy or leaving early without permission, being inattentive to the day's activities, etc, will result in a loss of credit towards participation. Participation includes being present, engaging in class, participating in classroom activities, etc.

WebAssign Homework

Most course assignments will be administered through WebAssign. This content will be accessed through Canvas. Each student should purchase an access code (in lieu of a textbook) to get access to the assignments. There is also an ebook included in the access you purchase that can be used for supplementary material. Assignments are due one week after the material is discussed in class.

Midterm Exams

You will be given 3 midterm exams throughout the semester. These exams will be semi-comprehensive in nature; that is, there may be some material from older exams on the midterm, but the focus will be on the new material. The exams will be administered in class and will be in a short-answer format. You are permitted a 4"x6" notecard and a graphing calculator on the exam. All work must be shown to receive credit.

Final Exam

The final exam is comprehensive and will be of the same format as the midterm exams.

Grading Matrix

<u>Assignments</u>	<u>Percentage</u>
Participation	10%
WebAssign Homework	30%
Midterm Exams	30%
Final Exam	30%

Grade Determination

A = 90+%

B = 80 – 89 %

C = 70 – 79 %

D = 60 – 69 %

F = 59-%

University Policies and Procedures

Students with Disabilities (ADA Compliance):

Chapter 7(7.004) Disability Accommodations for Students:

The University of North Texas at Dallas makes reasonable academic accommodation for students with disabilities. Students seeking accommodations must first register with the Disability Services Office (DSO) to verify their eligibility. If a disability is verified, the DSO will provide you with an accommodation letter to be delivered to faculty to begin a private discussion regarding your specific needs in a course. You may request accommodations at any time, however, DSO notices of accommodation should be provided as early as possible in the semester to avoid any delay in implementation. Note that students must obtain a new letter of accommodation for every semester and must meet/communicate with each faculty member prior to implementation in each class. Students are strongly encouraged to deliver letters of accommodation during faculty office hours or by appointment. Faculty members have the authority to ask students to discuss such letters during their designated office hours to protect the privacy of the student. For additional information see the [Disability Services Office website](#). You may also contact them by phone at 972-338-1777; by email at UNTDisability@untdallas.edu or in the Student Center Building, 1st floor.

Canvas Instructure Accessibility Statement:

University of North Texas at Dallas is committed to ensuring its online and hybrid courses are usable by all students and faculty including those with disabilities. If you encounter any difficulties with technologies, please contact our ITSS Department. To better assist them, you would want to have the operating system, web browser and information on any assistive technology being used. [Canvas Instructure Course Management System's Accessibility Statement](#) is also provided.

NOTE: Additional instructional technology tools, such as Turnitin, Respondus, Panopto, and publisher cartridge content (i.e. MyLab, Pearson, etc.) may NOT be fully ADA compliant. Please contact our Disability Office should you require additional assistance utilizing any of these tools.

Course Evaluation Policy:

Student's evaluations of teaching effectiveness is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider students' evaluations to be an important part of your participation in this class.

Assignment Policy: (According to the instructor's discretion while working in concert with the division/program's guidelines).

Exam Policy: (Online exams and the ability to retake is solely at the instructor's discretion). NOTE: Online exams may be proctored on campus per instructor's discretion.

Academic Integrity:

Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures in the [Student Code of Academic Integrity](#) Code 7.002 for complete provisions of this code.

Academic dishonesty includes, but is not limited to, cheating, plagiarizing, fabrication of information or citations, facilitating acts of dishonesty by others, having unauthorized possession of examinations, submitting work of another person or work previously used without informing the instructor, or tampering with the academic work of other students.

Web-based Plagiarism Detection: Please be aware in some online or hybrid courses, students may be required to submit written assignments to Turnitin, a web-based plagiarism detection service, or another method. If submitting to Turnitin, please remove your title page and other personal information.

Classroom Policies**Online Attendance and Participation:**

The University attendance policy is in effect for this course. Class attendance in the Canvas classroom and participation is expected because the class is designed as a shared learning experience, and because essential information not in the textbook will be discussed in the discussion board. Online presence and participation in all class discussions is essential to the integration of course material and your ability to demonstrate proficiency.

Attendance for this online or hybrid course is considered when you are logged in and active in Canvas, i.e., posting assignments, taking quizzes, or completing Discussion Boards. To maintain financial aid award eligibility, activity must occur before the census date of the session or term of the course. Refer to [Registrar's Office](#) for specific dates. If you are absent/not active in the course shell, it is YOUR responsibility to let the instructor know immediately, upon your return, the reason for your absence if it is to be excused. All instructors must follow university policy 7.005 covering excused absences; however, it is the instructor's discretion, as outlined in the course syllabus, of how unexcused absences may or may not count against successful completion of the course.

Inclement Weather and Online Classes: Online classes may or may not be effected by campus closures due to inclement weather. Unless otherwise notified by your instructor via e-mail, online messaging, or online announcement, students should assume that assignments are due as scheduled.

Online "Netiquette":

In any social interaction, certain rules of etiquette are expected and contribute to more enjoyable and productive communication. Emails, discussion board forum threads and/or any other forms of written communication in the online environment should use proper "netiquette" (i.e., no writing in all caps (usually denotes yelling), no curse words, and no "flaming" messages (angry, personal attacks).

Racial, ethnic, or gender slurs will not be tolerated, nor will pornography of any kind.

Any violation of online netiquette may result in a loss of points or removal from the course and referral to the Dean of Students, including warnings and other sanctions in accordance with the University's policies and procedures. Refer to the [Student Code of Student Rights Responsibilities and Conduct](#) Code 7.001. Respect is a given principle in all online communication. Therefore, please be sure to proofread all of your written communication prior to submission.

Diversity/Tolerance Policy:

Students are encouraged to contribute their perspectives and insights to class discussions in the online environment. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Dean of Students as the instructor deems appropriate.

Technology Assistance: In order to successfully access the materials in an online or hybrid course, UNT Dallas advises that your computer be equipped with the minimum system requirements listed on the first page of the syllabus.

If you experience difficulty accessing or using components of the course, try using Google Chrome browser. If you still experience technical difficulties, first, notify your instructor. If the problem is still not resolved, call Canvas 24/7 Help Desk at the phone number listed on the first page of the syllabus. Also, no matter what browser you use, always enable pop-ups. For more information see [Canvas Student Guide](#).