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## MAT 261: Calculus II

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### BASIC INFORMATION

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<b>Course title:</b>	Calculus II
<b>Course number:</b>	MAT 261, Section 1
<b>Number of credits:</b>	4
<b>Term and year:</b>	Fall 2024
<b>Instructor's name:</b>	Netra Khanal
<b>Office location:</b>	SC 244
<b>Office hours:</b>	MWF from 9:00 to 9:45 am
<b>Contact information</b>	
Telephone:	813-257-3650
E-mail:	nkhanal@ut.edu
<b>Course prerequisites:</b>	Calculus I, MAT 260 or equivalent
<b>Course times and location:</b>	
Days of Week:	Monday, Wednesday, and Friday
Time:	2:30 to 3:40 pm
Location:	SFB 288

### BRIEF DESCRIPTION OF THE COURSE

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MAT 261 is a continuation of the calculus sequence. We begin with a review of integration techniques from Calculus I and cover chapters 5-10 of the text. This course covers advanced integration techniques and applications, parametric and polar curves, sequences, and infinite series.

### COURSE LEARNING OUTCOMES

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After the successful completion of this course, each student will:

1. be able to find the integral of functions using advanced techniques of integration including integration by parts, trigonometric integration, trigonometric substitution, partial fractions, approximate integration, and improper integrals.
2. apply integration concepts by using them to compute areas between curves, volumes by slicing, volumes by cylindrical shells, arc length, area of a surface of revolution, and work.
3. analyze the convergence of sequences and infinite series and use them to evaluate integrals.
4. describe curves using parametric equations and polar coordinates and will apply the methods of calculus to these curves.

## TEXT AND MATERIALS

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**Textbook Title:** “University Calculus: Early Transcendentals

**ISBN:**9780 1349 95540

**Edition:** Fourth

**Year:** 2019

**Publisher:** Pearson

**Available:** UT Bookstore, Amazon, and other retail booksellers.

**Graphing Calculator:** I will be using Graphing Calculator TI83 plus for class demonstrations. It will be helpful if you also have one of your own. Other types of graphing calculator may be used.

**Mymathlab:** Mymathlab is an online homework system offered by the publisher. You can create your account and buy the access code online or use the access code that you buy from the book store. The course ID is: **khanal22730**.

## HOMEWORK

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The homework is an extremely important part of the course. There will be online homework for every section we cover. The maximum possible points for the online homework is 100. The Computer does not award partial credit, so I encourage you to work well before you choose and write your solution in computer. I encourage you to work together if you find it helpful. In order to be successful in learning the material and doing well on the examinations, you must think very hard about the problems yourself before discussing them with anyone else.

## QUIZZES

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Each student may earn quizzes score of up to 100 points by taking in-class/online quizzes. Some of the quiz problems will be based on homework problems. The dates of these quizzes are mentioned in *the class schedule* attached with this syllabus.

## GRADING

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The course grade will be based on a total of 600 points composed of 300 points for the three mid-term exams, 100 points for the final exam, 100 points for the online homework and 100 points for the in-class/online Quizzes. Letter grades will be assigned as follows:

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|--------------------|----------------|
| ● 92% and above: A | ● 88%-91%: AB  |
| ● 82%-87%: B       | ● 78%-81%: BC  |
| ● 72%-77%: C       | ● 68%-71%: CD  |
| ● 60%-67%: D       | ● Below 59%: F |

## ATTENDANCE POLICY AND EXTRA CREDIT

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I expect you to attend every class session. Experience has shown a definite correlation between poor class attendance and low grades. I will value your attendance and participation for the class. You will obtain 6 points at most for the attendance. Each absence will result in the attendance score decreasing by 2 points. Your attendance score will be used as an extra credit.

## MAKEUP EXAMS AND QUIZZES

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Makeup exams will be given only for very serious and unavoidable conflicts or emergencies and only if your request to present a make-up examination is approved by your instructor IN ADVANCE. At the instance that a make-up examination is appropriate, it will be given within a week and is typically more difficult than that of the scheduled exam. There is NO any makeup for the missed quiz.

## EXAM SCHEDULE

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**Term Exams:** Three one hour exams worth 100 points each will be given as follows:

- Exam I on Monday, September 30, 2024,
- Exam II on Friday, November 1, 2024,
- Exam III on Monday, November 25, 2024,

**Final Exam:** A comprehensive final exam will be given on Wednesday, December 11, 2024 from 3:45 to 5:45 pm at SFB 288.

## UNIVERSITY OF TAMPA COURSE POLICIES

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**Syllabus Subject to Change:** This syllabus is informational in nature and is not an express or implied contract. It is subject to change due to unforeseen circumstances, as a result of any circumstance outside the University's control, or as other needs arise. If, in the University's sole discretion, public health conditions or any other matter affecting the health, safety, upkeep or wellbeing of our campus community or operations requires the University to make any syllabus or course changes or move to remote teaching, alternative assignments may be provided so that the learning objectives for the course, as determined by the University, can still be met. The University does not guarantee that this syllabus will not change, nor does it guarantee specific in-person, on-campus classes, activities, opportunities, or services or any other particular format, timing, or location of education, classes, activities, or services.

**Title IX & Reporting Sexual Misconduct:** Sexual misconduct, including, but not limited to: acts of sexual harassment, nonconsensual sexual intercourse, nonconsensual sexual contact, dating violence, domestic violence, stalking, gender-based harassment or sexual exploitation are prohibited by Title IX, the Student Code of Conduct and other University policies. The University strives to maintain a safe and nondiscriminatory campus community, and to do so, it is important for the Spartan community to report any safety concerns, such as acts of sexual misconduct. If you experience or witness any of these University prohibited actions, the University encourages

reporting these matters, so that the University is able to take prompt action to stop, prevent and remedy the effects of the harassment. University resources and grievance procedure information will be provided to individuals who may seek services or redress.

There are many options to making a Title IX/Sexual Misconduct report. You may report this information through the University's online Title IX Report form. The information will be forwarded and reviewed by the Title IX Coordinator or a Title IX Deputy Coordinator, who will contact you to provide further information on University grievance procedure options and resources that are available.

You may also make a direct report by contacting the University's Title IX Coordinator:

Kelsey San Antonio, Title IX Coordinator

Southard Family Building Suite #266

(KSanAntonio@ut.edu) (813)-257-3748

If you decide to discuss an incident with your course professor, it is important to note that they are considered a Responsible Employee, and are obligated to report the information you share to the University's Title IX Coordinator.

If you are not ready to disclose or report this information to the University, you may disclose the information to a confidential party, such as a Victim Advocate, or a Counselor or Health Clinician at the Student Health and Wellness Center, to discuss any further options and resources available before making a decision to report.

- The Victim's Advocacy Hotline: (victimadvocacy@ut.edu) (813)257-3900.
- Counseling Center (counselingservices@ut.edu) (813)253-6250.
- • Student Health - Medical Services (healthcenter@ut.edu) (813)253-6250

For more information, see The University of Tampa's Title IX webpage and the Student Code of Conduct webpage.

**Students with disabilities:** If you require accommodations because of a disability, please call (813) 257-5757 or e-mail [accessibility.services@ut.edu](mailto:accessibility.services@ut.edu) for information on registering with Student Disability Services. You can also submit your request for accommodations and supporting documentation via an Accommodation Request. Please feel free to discuss this with me in private for more information. If you encounter disability-related barriers accessing the online content for this course, please contact Sharon Austin, Academic Technology Accessibility Specialist, at [saustin@ut.edu](mailto:saustin@ut.edu). If the initial access to the content cannot be resolved, the university will provide individuals with disabilities access to, and use of, information and data by an alternative means that meets the identified needs.

**Course interruption due to adverse conditions:** In case of any adverse condition or situation which could interrupt the schedule of classes, each student is asked to access UT Homepage for information about the status of the campus and class meetings. In addition, please refer to UT Blackboard for announcements and other important information. You are responsible for accessing this information.

**Academic Integrity Statement:** The University of Tampa is committed to the development of each student to become a productive and responsible citizen who embraces the values of honesty, trust, fairness, respect, and responsibility. Upholding academic integrity and promoting an ethical standard that does not condone academic misconduct is an important demonstration of these values and underpins how we live and learn in a community of inquiry. Students are expected to act ethically in the pursuit of their education and to avoid behaviors that run counter to participation

in and demonstration of their learning. The Academic Integrity Policy lists several common types of violations related to cheating, unauthorized collaboration or assistance, plagiarism, and more. While the policy lists common violations and examples, it is not an exhaustive list and instructors may identify other types of conduct that impacts their ability to evaluate what has been learned substantively enough to constitute a violation of this policy. An instructor may impose a wide range of sanctions for academic integrity violations from completing a more difficult replacement assignment to an F in the course. Particularly severe violations or multiple violations throughout a student's academic career may result in suspension or expulsion from the University.

**Attendance Policy and Excused Absences:** The University of Tampa has a General Attendance Policy in the Catalog. As stated, students are expected to attend class and academic programs and individual faculty may require specified levels of attendance for successful completion of a course. However, the University has identified specific types of absences as either excused or unexcused absences. Students should be aware of each type of absence and the impact on their ability to complete work that was missed during their absence. Faculty must be notified of scheduled excused absences in advance in order for students to receive accommodation for work missed. The type of absence must fall within the categories specified in the catalog and the faculty member may determine how far in advance notification must be provided.

Certain types of unscheduled absences may also qualify as excused. Faculty may require documentation or verification. This would include isolation or quarantine due to COVID. The policy requires faculty to accommodate excused absences, including graded work, in a fair manner. This is determined by the faculty member and is dependent on the structure of the course and what work was missed. This may include replacement of work with something equivalent or having the work excluded from the student's grade. Faculty are NOT required or expected to provide accommodation through remote access to the class or by providing a recording of the class session.

Faculty may determine that a student has missed too much participant-dependent work to successfully accomplish learning outcomes, even if the absences meet the criteria for excused absences. Faculty are not required to allow a student to make up work missed due to unexcused absences.

**Class Disruption Statement:** Every student has the right to a comfortable learning environment where the open and honest exchange of ideas may freely occur. Each student is expected to do his or her part to ensure that the classroom (and anywhere else the class may meet) remains conducive to learning. This includes respectful and courteous treatment of all in the classroom. According to the terms of the University of Tampa Disruption Policy, the professor will take immediate action when inappropriate behavior occurs. Details of the policy may be found at Disruption of the Academic Process.

**Academic Support – UT Center for Mathematics** The UT Center for Mathematics, located in MKE 118, offers open tutoring hours for students of all levels and abilities. The Center for Mathematics is open for drop-in tutoring for this course with no appointment necessary. Please visit to the Math Center website (<https://www.ut.edu/academics/college-of-social-sciences-mathematics-and-education/mathematics-degrees/ut-center-for-mathematics>) for tutoring hours for this course.

## SCHEDULE FOR MAT 261

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Week	Date	Section	Exams	Exercise Problems	Quiz
1	Aug 26	Intro, Review 5.5			
	Aug 28	Review 5.6			
	Aug 30	6.1			
2	Sep 2		<b>Labor Day</b>		
	Sep 4	6.1/6.2			
	Sep 6	6.2/6.3			Quiz 1
3	Sep 9	6.3			
	Sep 11	6.4			
	Sep 13	6.5			Quiz 2
4	Sep 16	7.1			
	Sep 18	7.2			
	Sep 20	7.2/7.3			Quiz 3
5	Sep 23	7.3/8.1			
	Sep 25	8.1			
	Sep 27		Review for Exam I		
6	Sep 30		<b>Exam I</b>		
	Oct 2	8.2			
	Oct 4	8.2/8.3			
7	Oct 7	8.3/8.4			
	Oct 9	8.4/8.6			
	Oct 11	8.6			Quiz 4
8	Oct 14	8.7			
	Oct 16	9.1			
	Oct 18	9.2			Quiz 5
9	Oct 21	9.3			
	Oct 23	9.4			
	Oct 25	9.5			Quiz 6
10	Oct 28	9.6			
	Oct 30		Review Exam II		
	Nov 1		<b>Exam II</b>		
11	Nov 4	9.7			
	Nov 6	9.7/9.8			
	Nov 8	9.8			
12	Nov 11	9.9			
	Nov 13	9.10			
	Nov 15	10.1			Quiz 7

Week	Date	Section	Exams	Exercise Problems	Quiz
13	Nov 18	10.2			
	Nov 20	10.3			
	Nov 22		Review Exam III		
14	Nov 25		<b>Exam III</b>		
	Nov 27		<b>Thanksgiving</b>		
	Nov 29		<b>Thanksgiving</b>		
15	Dec 5	10.4			
	Dec 7	10.5			
	Dec 9		Review for Final		
16	Dec 11		<b>Final Exam</b>	3:45-5:45pm	

Exams I, II and III will cover the following chapters tentatively.

- Exam I (Chapters 5.5-5.6, 6, 7, 8.1)
- Exam II (Rest of chapter 8 and parts of chapter 9)
- Exam III (Rest of chapters 9 and parts of chapter 10)

**Note:** The final exam is comprehensive.

### IMPORTANT DATES

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Last day to add/drop a course: September 1 (before 3pm)

Last day to withdraw with 50% tuition credit: September 13

Last day to withdraw with a “W” grade: November 4

Thanksgiving break: November 27- December 1

Final Exams: Dec 9-12

### A FINAL NOTE

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I am genuinely committed to your success in Calculus II this semester and care about your general welfare. I hope you will take advantage of my open invitation to see me whenever I can be of help to you.

**Note:** *Any changes in this syllabus will be communicated to you in class by the instructor.*