

MATH 2414 – CALCULUS II

COURSE SYLLABUS, FALL 2022

Course Instructor: Dr. Blerina Xhabli

Email: bxhabli@central.uh.edu

Course/Section Number: Math.2414/11605 accompanied with a lab

Lecture Time/Place: MWF 10:00am – 11:00am / F 160

Office Hours: MWF 12:30pm – 1:30pm / PGH 212 and/or by appointment

Course Homepage: www.casa.uh.edu and MATH2414-11605-F22 TEAM

Course Calendar: <https://www.math.uh.edu/~blerina/Math2414F22.html>

LEARNING OBJECTIVE

Upon successful completion of this course, students will master the following:

- Integration Techniques
- Applications of Integration
- Sequences and Series
- Polar Coordinates
- Parametric Equations

COURSE HOMEPAGE/CASA

The course homepage for this class is <http://www.casa.uh.edu>. **Every student is expected to create a CASA account by the first day of classes.** It is highly recommended that you check the CASA class page calendar at least once a day. This will allow you to stay up to date with assignments, homework and announcements. This page will provide you with access to the textbook, homework assignments, the syllabus, the course calendar, online lectures and useful links.

COURSE LEARNING MATERIALS

The textbook, online quizzes, homework assignments, and additional help materials will be made available by logging into CourseWare/CASA at <http://www.casa.uh.edu>. Students pay for access to CASA as part of their fee bill via CTAP. If one opts out of the CTAP, they can purchase an access code for this course at UH Bookstore. In this case, if the code is not entered by the deadline specified on CASA, students will lose access to CASA. No make ups will be given for assignments missed during the no-access period. More information on the Cougar Textbook Access Program (CTAP) can be found at the following link:<https://uh.edu/af-auxiliary-services/ctap/>

TECHNOLOGY REQUIREMENTS

Computer and internet access is required for this course. In summary, students will need:

- a functioning and updated Computer (with microphone, speaker or earphones, and webcam)
- Reliable Internet Connection
- PDF viewer/Ability to watch mp4 files.
- Ability to log in to CASA for online assignments.
- Ability to access Microsoft TEAMS platform.

Note that all UH students have access to MS teams with their cougarnet ID.

RESOURCES FOR ONLINE LEARNING

University of Houston is committed to student success, and provides information to optimize the online learning experience through our Power-On webpage. Please visit this webpage for a comprehensive set of resources, tools and tips including: obtaining access to the internet, AccessUH; requesting a laptop through the Laptop Loaner Program; using your smartphone as a webcam; and downloading Microsoft Office 365 at no cost. For assistance, contact UHOnline@uh.edu.

COURSE DELIVERING FORMAT AND STRUCTURE

This course is being offered in the **face to face** format. Every lecture session will be held **every Mon/Wed/Fri 10:00am - 11:00am** according to the class schedule at **F 160**. Being a face to face delivered course, all students agree that they are available during the meeting times.

Even though the course format/structure is face to face, due to the changing nature of the pandemic, the team for this lecture will be created and available on MS TEAMS. In case of a need to move to the online setting, all students will be enrolled in the class team. Every student is automatically put on the MS Team of this course.

This course is not self-paced; students are expected to follow assignment due dates as specified on CASA calendar. After every lecture session, we recommend working on the corresponding quiz and homework assignments.

Attendance is strongly recommended. While we cannot force you to be in class during the scheduled time of this course, it is important to emphasize that your success depends tremendously on the consistent efforts you do show to come to every lecture and learn the topics in class. Unless it is an emergency or something important, you should do the utmost to attend every lecture. If you can't attend the lecture session in person due to personal important emergencies, make sure you watch the recorded video of the session. All the lecture sessions will be recorded and the links of the recordings will be displayed in your interactive CASA calendar. The best approach is to watch the missed lecture video before the next upcoming lecture session.

Besides the lecture sessions in person, you will be having **Lab Sessions/Recitations** in person. Any student who is registered for this course should also be registered for a lab section. You will not receive a separate grade for the lab section. The lab sessions are led by teaching assistants from the mathematics department. Labs start on the first day of school.

During these sessions, you will be working with more practice problems in order to master the newly learned concepts. Furthermore, you will turn in written homework assignments, work on class work assignments and take written lab quizzes. The teaching assistants will provide help in homework/quiz problems and provide more practice as time permits. All teaching assistants of our course will have their own channel in our team. The students are encouraged to post their questions ahead of time under their corresponding lab channel they will be attending. **The student should attend the lab session he is enrolled into.**

1. Students are expected to behave professionally during lecture and lab sessions. Any students who do not follow the university's code of conduct might be removed from the session.
2. Students will have only two places to concentrate on: CASA for course material, lecture notes and assignments/exams and TEAMS for online setting when necessary. All the course materials will be found in both places.
3. For online sessions, you are advised to turn off your webcam and microphone before joining the sessions. By joining an online session, students give consent to be recorded on the live session video. This rule will apply if we need to switch to online teaching.

Important Note: Your attendance is required for both lectures and labs. If due to health reasons you cannot attend regularly you are encouraged to sign up for an online section of this course.

PRESENCE IN CLASS POLICY for FACE to FACE COURSES

If you are experiencing any COVID-19 symptoms that are not clearly related to a pre-existing medical condition, do not come to class. Please see Student Protocols for what to do if you experience symptoms and Potential Exposure to Coronavirus for what to do if you have potentially been exposed to COVID-19. Consult the Undergraduate Excused Absence Policy for information regarding excused absences due to medical reasons.

To reduce the spread of COVID-19, the University strongly encourages everyone (vaccinated or not) to wear face coverings indoors on campus including classrooms for both faculty and students.

COVID-19 INFORMATION

Students are encouraged to check the University's COVID-19 website regularly for important updated information including on-campus testing, vaccines, diagnosis and symptom protocols, campus cleaning and safety practices, report forms, and positive cases on campus.

VACCINATIONS

Data suggests that vaccination remains the best intervention for reliable protection against COVID-19. Students are asked to familiarize themselves with pertinent vaccine information, consult with their health care provider. The University strongly encourages all students, faculty and staff to be vaccinated.

REASONABLE ACADEMIC ADJUSTMENTS/AUXILIARY AIDS

The University of Houston complies with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act of 1990, pertaining to the provision of reasonable academic adjustments/auxiliary aids for disabled students. In accordance with Section 504 and ADA guidelines, UH strives to provide reasonable academic adjustments/auxiliary aids to students who request and require them. If you believe that you have a disability requiring an academic adjustments/auxiliary aid, please contact the Justin Dart Jr. Student Accessibility Center (formerly the Justin Dart, Jr. Center for Students with DISABILITIES).

EXCUSED ABSENCE POLICY

Regular class attendance, participation, and engagement in coursework are important contributors to student success. Absences may be excused as provided in the University of Houston Undergraduate Excused Absence Policy for reasons including medical illness of student or close relative, death of a close family member, legal or government proceeding that a student is obligated to attend, recognized professional and educational activities where the student is presenting, and University-sponsored activity or athletic competition. Under these policies, students with excused absences will be provided with an opportunity to make up any quiz, exam or other work that contributes to the course grade or a satisfactory alternative. Please read the full policy for details regarding reasons for excused absences, the approval process, and extended absences. Additional policies address absences related to military service, religious holy days, pregnancy and related conditions, and disability.

RECORDING OF CLASS

Students may not record all or part of class, livestream all or part of class, or make/distribute screen captures, without advanced written consent of the instructor. If you have or think you may have a disability such that you need to record class-related activities, please contact the Justin Dart Jr. Student Accessibility Center. If you have an accommodation to record class-related activities, those recordings may not be shared with any other student, whether in this course or not, or with any other person or on any other platform. Classes may be recorded by the instructor. Students may use instructor's recordings for their own studying and notetaking. Instructor's recordings are not authorized to be shared with anyone without the prior written approval of the instructor. Failure to comply with requirements regarding recordings will result in a disciplinary referral to the Dean of Students Office and may result in disciplinary action.

SYLLABUS CHANGES

Due to the changing nature of the COVID-19 pandemic, please note that the instructor may need to make modifications to the course syllabus and may do so at any time. Notice of such changes will be announced as quickly as possible on CASA or in class.

COURSE EVALUATION ASSESSMENTS/GRADING SCHEME

A student in this class is expected to complete the following assignments:

1. 3 Regular Exams
2. Final Exam
3. Weekly Online Quizzes (mostly 2 quizzes per week)
4. Weekly Homework Assignments
5. Class Participation Poppers (quick multiple choice problems asked throughout the lectures)
6. Weekly Lab Quizzes (once a week during your recitation sessions with the teaching assistants)

The final course grades are assigned according to the students performance on each category above, using the following guidelines/percentages. Do not forget the importance of attending the lectures and the lab sessions regularly.

ATTENDANCE POPPERS/PARTICIPATION: 3%

Attending lectures is very important for your learning experience. Try your best to attend all lectures. To keep track of your attendance, you will be given quick multiple choice questions called poppers during the lecture. These questions are aimed to keep the students' attention alive and to engage them in the lecture. The answers will be submitted online through the EMCF tab of your CASA accounts. Each popper assignment will be open during the lecture session and will not be available afterwards. Your instructor will explain how the attendance poppers will be taken. Bring a smart phone or another device (tablet, laptop, etc.) to class so that you can answer questions given by your instructor on CASA while you are in class. Popper questions can be given at any time during the lecture; those students who are late to class will not be given a chance to see the previous questions.

Sharing the answers to attendance/participation poppers with students who are not present in class is considered a violation of Academic Honesty policies and might have consequences as explained on that item in this syllabus (see below). The attendance popper is a confirmation tool for attending the class; no make ups will be given for any reason. To cover for emergencies or medical issues, the instructor will excuse 3 - 4 missed lectures by dropping 15% of all your poppers.

LAB QUIZZES: 5%

Weekly lab quizzes will be given during your lab sessions; dates will be announced on your CASA calendar. Students must attend labs to take these quizzes; no other format will be available. Lab quizzes will cover the previous week's lecture content. Students are encouraged to study after each lecture to learn the material, bring their questions to the labs and get help as needed to be successful in this course.

Graded lab quizzes will be returned to students (generally the week after). One lab quiz grade will be dropped to cover for emergencies or unexpected events. **Attendance is mandatory.**

HOMEWORK: 10%

Homework assignments will mostly be the free response type, where you show your work for each problem. The homework assignments are to be submitted to your lab teaching assistant on the given deadline. There might be multiple choice (EMCF) homework assignments, which will be posted and answered on CASA using the EMCF tab. Do not wait til the last day to begin working on your homework. You will have one week to work on it. Develop healthy study habits and use your time efficiently by taking advantage of the lab sessions where you can get help as much as needed. **NO late homework is accepted.** We will drop 1 lowest homework grade at the end.

ONLINE QUIZZES: 12%

There will be one to two online quizzes given each week. You can attempt these quizzes up to 5 times, and the highest grade will be used for your score. There is one exception to this: Quiz 00 has only 2 attempts. We are using it to monitor your prediction for success. It is a prerequisite quiz.

You can access the quizzes by logging into CASA at <http://www.casa.uh.edu> and selecting Online Assignments. Quizzes will not reopen once they have closed. Two lowest online quiz grades will be dropped at the end of the semester. The primary reason for this policy is to offset the impact of zero/low quiz scores due to emergencies on a student's final course grade.

Important Note: We begin this course with **Quiz 00**. Quiz 00 is over the prerequisite material of Calculus I to be known for a smooth transition to Calculus II. The main objective of this quiz is to see if you have the necessary background and skills needed to be successful in this course.

Impact of Quiz 00 Completion: If you score low on your first attempt (below 60); you may consider dropping this course to take Math 2413 to prepare for this course. If that is not the case, we strongly recommend that you enroll in an SEP WORKSHOP designed for Math 2414 students; you can add this workshop in your PeopleSoft account before the last day to add classes. The workshop will count as 1-credit course. This workshop will help you to fill the background with basic Calculus I skills to get ready for this course. Furthermore, it will help you with the different topics of Calculus II throughout the semester. See SEP WORKSHOP SCHEDULE here: <https://uh.edu/nsm/scholar-enrichment/workshops/sep-workshop-schedule.pdf>

Completing the quizzes within the given time period is very important for your success. Once the deadline passes, then the quiz is done. Neither the instructor, nor Math Department, is responsible for any difficulty that you have in accessing the quizzes. Please don't delay taking quizzes – there are times during the week when CASA is slow or overloaded. There is no amnesty period for the quizzes; the quizzes will NOT be reopened at the end of the semester. Please contact CASA tech support directly if you are having technical problems for your account.

EXAMS: 70%

There will be 3 midterm exams and one comprehensive final exam. All the exams including the final, will be taken at CASA Testing Center(s) with reservation. You must make a reservation to take a test prior to the first testing day. Read the information and policies about CASA Testing Center(s) under the Schedule Exam tab on CASA, and know what to expect on the test day. Follow the instructions properly to reserve a time for your tests. You should print out the web page showing your reservation time for your records and proof of your reservation. You have only ONE attempt on all tests and **you can NOT use calculators during any of the exams**; study accordingly.

Exam Schedule:

Exam	Topics	Where	When	Percent of Average
Test 1	Chapter 7	CASA Testing Center	09/22 – 09/24	16%
Test 2	Chapter 8	CASA Testing Center	10/17 – 10/18	16%
Test 3	Chapter 9	CASA Testing Center	11/18 – 11/19	16%
Final Exam	Chapters 7-10	CASA Testing Center	12/12 – 12/14	22%

Letter grades will be assigned as follows:

A	$x > 93$	B-	$80 \leq x < 83$	D+	$67 \leq x < 70$
A-	$90 \leq x < 93$	C+	$77 \leq x < 80$	D	$63 \leq x < 67$
B+	$87 \leq x < 90$	C	$73 \leq x < 77$	D-	$60 \leq x < 63$
B	$83 \leq x < 87$	C-	$70 \leq x < 73$	F	below 60

FINAL EXAM

Final is comprehensive and mandatory for ALL students. There is no “exemption” or “opt-out” from the final. Check course website/calendar for the final exam schedule. Reserve a seat for it when reservation begins. Reservations are made online at CASA on a first come first serve basis. Make your travel plans so that you are available during the testing period.

If you miss a test without a valid excuse as described below, you receive a zero for it. When you take the final, the grade on the final will replace that zero. If you miss more than one test, only the first one will be replaced. If the final exam grade is better than any of the previous test grades, then the final exam grade will automatically replace the lowest test grade even if you do not miss any test. The primary reason for this policy is to offset the impact of zero scores due to emergencies (medical, personal, or otherwise) on a student’s final course grade.

EXTRA CREDIT

There are practice tests and a practice final on Courseware. You can take the practice tests several times (up to 20 times) and we only take your best score. **5% of the highest score** will be applied to the relevant test as extra credit. Pay attention to the deadlines on these practice tests. In general, practice tests end before the exam period starts (except for Practice Test 1). To receive extra credit, students should take the practice tests before they close.

LATE ASSIGNMENT AND MAKE-UP POLICY

This course is a cumulative course. You as a student need to keep up with the reading, quizzes, homework assignments and exams. Students are expected to check the calendar on CASA several times a week and plan ahead so that they don’t miss assignments. We drop some assignments primarily to offset the impact of zero/low scores due to emergencies on a student’s final course grade. Hence, students should not expect to have an option to make up missed assignments unless in the case of an excused absence (See: Excused Absence Policy above).

If you miss a test, it may be possible to reschedule a test appointment during the testing period (depending on space availability) by using the online scheduler. Rescheduling must be made online in your account; your instructor is not responsible for finding seats or making reservations for you. At the end of the semester, your final exam score will replace your lowest midterm exam score if the former is higher. A missed test will result in a score of zero. If you miss two or more exams, only one of those scores will be replaced.) The primary reason for this policy is to offset the impact of zero/low test scores due to emergencies on a student's final course grade.

If requesting make up work (assignment or test) due to an excused absence: the student needs to contact the instructor in writing before the next class meeting (or as soon as possible afterwards with an explanation regarding why the notice could not be sent before the next class meeting). Read the Undergraduate Excused Absence Policy to see a list of documentations to support your request; follow the guidelines provided on this document to make your request. Your instructor will inform you of the decision in writing (via email).

OFFICE HOURS

My office hours will be held on campus in room PGH 212 every MWF 12:30pm – 1:30pm and by appointment. To request an online appointment, the students must email (see below for proper emailing etiquette) from their cougarnet email account with their full name, course name and section number and student ID, a brief description of what the nature of the meeting is for and a subject line with “private meeting request MATH 2414”. Please give at least 2 or 3 dates / time ranges you are available and I will reply with an online TEAMS link for our meeting. You must RSVP the meeting to reserve the time slot.

NOTE: Your teaching assistant (TA) will also have tutoring times – BUT make sure you are taking advantage of the LAB time with your TA for extra help as well.

STUDYING GUIDE and TUTORING OPTIONS

Note that that this course is a 4-credit course. Every week, we recommend planning to spend at least 12 hours of outside of lecture time to study / practice for this course (the general principle is at least 3 hours per credit every week). In order to be successful in this course, students should study regularly, plan ahead to work on the assignments, get help when needed. A consistent effort is essential to getting a good grade. You can get help by:

- Attending your instructor's / TA's office hours
- Enrolling in an SEP workshop
- Visiting CASA tutoring center
- Visiting LAUNCH tutoring center
- Visiting SEP tutoring center

Here are some important tips for success in this course:

- Attend class and ask questions – very encouraged to ask questions on your TEAMS account under the Discussion Channel
- Study after each lecture by reviewing the notes you took and working through the extra examples in your textbook.
- Come prepared; understand the material presented on the previous lecture.
- Work on your HW and take online quizzes after the material is covered in class. Do not wait until the due dates so that you can get help.
- Practice is key: retake your quizzes, do the examples from the textbook, work the lab sheets even if they are not for a grade
- Studying for your exams:
 - Learn the material every week; take care of your assignments every week.
 - As you study, make a note of those topics you do not quite understand and visit your instructor during office hours or tutoring centers for clarification of these concepts.
 - During the week prior to a test; work on the review sheet, take and retake the practice tests, review your notes / quizzes correlated to the exam
 - Review corresponding HW assignments as you prepare for the upcoming tests.
 - Attend tutoring services to get help.
 - And most importantly, eat and sleep well!

COMMUNICATION VIA UH EMAIL

Email communications related to this course will be sent to your Exchange Email Account which each University of Houston student receives. The Exchange mail server can be accessed via Outlook, which provides a single location for organizing and managing day-to-day information, from email and calendars to contacts and task lists. Exchange email accounts can be accessed by logging into Office 365 with your Cougarnet credentials or through Access UH. They can also be configured on IOS and Android mobile devices. Additional assistance can be found at the Get Help page.

Your instructor will be sending class emails using PeopleSoft; you are responsible for checking your UH email. Per UH Policy, notices properly addressed and so sent via PeopleSoft shall be presumed to have been received by the student. Thus, you are responsible for the content in emails sent to your UH account, regardless if your external (non-UH) email provider filters or blocks them. When emailing your instructor, it is recommended that you use a professional email address and include the course name on the subject line so that your instructor can address your questions accordingly. Please read this link for more on communication via email: [EMAIL ETIQUETTE](#)

IMPORTANT: Note that your instructor will communicate with you via email. Your instructor will not reply to chat messages via MS TEAMS outside of class times or office hours. Calls from MS TEAMS will not be responded to unless they are made by appointment. If you leave a voice mail at your instructor's office phone, he/she might not receive it. The best way of communication with

your instructor outside of class times is via email for personal matters and via the Discussion Channel in your TEAMS account for general questions and content questions (like help with an example from your notes or a quiz question.) It is strongly recommended to always include “MATH 2414 Section 11605” as well as a searchable description of the issue in the subject line for ALL course-related email correspondence. If you do not receive a timely response to an important email within 24 hours, it is your responsibility to send a follow-up email. If you again do not hear from me after a follow-up email, it is most likely that your email is not coming through and you should come to office hours or speak with me before or after class. It is your responsibility to ensure that I am aware of issues you may have with the course; failure to effectively initiate timely communication is not a valid basis for a grade grievance and cannot be used as such.

ACADEMIC HONOR PRINCIPLE

High ethical standards are critical to the integrity of any institution, and bear directly on the ultimate value of conferred degrees. All UH community members are expected to contribute to an atmosphere of the highest possible ethical standards. Maintaining such an atmosphere requires that any instances of academic dishonesty be recognized and addressed. The UH Academic Honesty Policy is designed to handle those instances with fairness to all parties involved: the students, the instructors, and the University itself. All students and faculty of the University of Houston are responsible for being familiar with this policy.

All students are expected to adhere to the UH Academic Honesty Policy as described in the UH Undergraduate Catalog. “Academic dishonesty” means employing a method or technique or engaging in conduct in an academic endeavor that contravenes the standards of ethical integrity expected at the University of Houston or by a course instructor to fulfill any and all academic requirements. Academic dishonesty includes, but is not limited to, the following: Plagiarism; Cheating and Unauthorized Group Work; Fabrication, Falsification, and Misrepresentation; Stealing and Abuse of Academic Materials; Complicity in Academic Dishonesty; Academic Misconduct.

Refer to UH Academic Honesty website and the UH Student Catalog for the definition of these terms and university’s policy on Academic Dishonesty. Anyone caught cheating will receive sanctions as explained on these documents and will be reported to the department for further disciplinary action. The sanctions for confirmed violations of this policy shall be commensurate with the nature of the offense and with the record of the student regarding any previous infractions. Sanctions may include, but are not limited to: a lowered grade, failure on the examination or assignment in question, failure in the course, probation, suspension, or expulsion from the University of Houston, or a combination of these. Students may not receive a W for courses in which they have been found in violation of the Academic Honesty Policy. If a W is received prior to a finding of policy violation, the student will become liable for the Academic Honesty penalty, including F grades.

Posting answers for Poppers or Homework questions online (at group chats or other online tools) **is considered an academic honesty violation.** Students are expected to know the difference between “getting/giving HELP on a problem” and “getting/giving answers to a problem”. If a student is caught sharing answers (in person or online), he/she might be reported to the departmental hearing officer for an academic honesty violation. If a student becomes aware of cheating or any other violations; that student is responsible for informing the instructor.

COPYRIGHT POLICY

The materials provided by the instructor in this course are for the use of the students enrolled in the course only. Copyrighted course materials may not be further disseminated without instructor permission. This includes sharing content to commercial course material suppliers such as Course Hero or Chegg. Students are also prohibited from sharing materials derived from the instructor's content (e.g., a student's lecture notes).

INCOMPLETES and DROPPING/WITHDRAWING

An incomplete (I) may be awarded to you by your teacher if the reason is a compelling NON-ACADEMIC reason, you have completed virtually all the course assignments AND you have a passing grade on this work.

Incompletes are NOT available to students who have done little of the coursework nor for students who have failing grades on what they have done. See your teacher to discuss eligibility and to fill out and sign the Incomplete contract. This is also required and must be signed in advance of an I being posted. Imminent failure is not an acceptable reason to be awarded an incomplete.

If a student wants to drop the class, it is his/her responsibility to do so by logging on access.uh.edu and completing the drop process before the drop deadline, Wednesday 11/16. Instructors cannot drop students for any reason.

TITLE IX/SEXUAL MISCONDUCT

Per the UHS Sexual Misconduct Policy, your instructor is a "responsible employee" for reporting purposes under Title IX regulations and state law and must report incidents of sexual misconduct (sexual harassment, non-consensual sexual contact, sexual assault, sexual exploitation, sexual intimidation, intimate partner violence, or stalking) about which they become aware to the Title IX office. Please know there are places on campus where you can make a report in confidence. You can find more information about resources on the Title IX website at <https://uh.edu/equal-opportunity/title-ix-sexual-misconduct/resources/>

SECURITY ESCORTS AND COUGAR RIDE

UHPD continually works with the University community to make the campus a safe place to learn, work, and live. Our Security escort service is designed for the community members who have safety concerns and would like to have a Security Officer walk with them, for their safety, as they make their way across campus. Based on availability either a UHPD Security Officer or Police Officer will escort students, faculty, and staff to locations beginning and ending on campus. If you feel that you need a Security Officer to walk with you for your safety please call 713-743-3333. Arrangements may be made for special needs. Parking and Transportation Services also offers a late-night, on-demand shuttle service called Cougar Ride that provides rides to and from all on-campus shuttle stops, as well as the MD Anderson Library, Cougar Village/Moody Towers and the UH Technology Bridge. Rides can be requested through the UH Go app. Days and hours of operation can be found at <https://uh.edu/af-university-services/parking/cougar-ride/>

UH CAPS Statement

Counseling and Psychological Services (CAPS) can help students who are having difficulties managing stress, adjusting to college, or feeling sad and hopeless. You can reach CAPS (<http://www.uh.edu/caps>) by calling 713-743-5454 during and after business hours for routine appointments or if you or someone you know is in crisis. No appointment is necessary for the “Let’s Talk” program, a drop-in consultation service at convenient locations and hours around campus. http://www.uh.edu/caps/outreach/lets_talk.html

HELPFUL INFORMATION

COVID-19 UPDATES: <https://uh.edu/covid-19/>

COOGS CARE: <https://www.uh.edu/dsaes/coogscare/>

LAPTOP CHECKOUT REQUESTS:

<https://www.uh.edu/infotech/about/planning/offcampus/index.php#do-you-need-a-laptop>

HEALTH FAQS: <https://uh.edu/covid-19/faq/health-wellness-prevention-faqs/>

STUDENT HEALTH CENTER:

<https://uh.edu/class/english/lcc/current-students/student-healthcenter/index.php>

The material covered in the course is listed below:

Ch 7 Applications of Integration

- 7.1 Integration Review
- 7.2 The Mean Value Theorem for Integrals
- 7.3 Area
- 7.4 Volume
- 7.5 Arc Length, Centroids, and Surface Area
- 7.6 Differential Equations and Exponential Growth/Decay

Ch 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 Improper Integrals
- 8.6 Numerical Integration

Ch 9 Sequences and Series

- 9.1 Bounded Sets and Sequences
- 9.2 Convergence of Sequences
- 9.3 Numerical Series and Convergence
- 9.4 The Integral Test, Comparison Tests
- 9.5 The Ratio Test and the Root Test
- 9.6 Alternating Series and Absolute Convergence
- 9.7 The Power Series
- 9.8 The Taylor Series

Ch 10 Polar Coordinates and Parametric Equations

- 10.1 Polar Coordinates
- 10.2 Graphing in Polar Coordinates
- 10.3 Area and Arc Length in Polar Coordinates
- 10.4 Curves Given Parametrically
- 10.5 Tangents to Curves Given Parametrically
- 10.6 Arc Length and Surface Area for Curves Given Parametrically