

Course Syllabus

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Theory of Functions of a Real Variable | Math 6320 | Section 11497

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Instructor Contact Information

Instructor: Bernhard Bodmann

- Phone: 713 743 3581

- Office: PGH 641A
- Office Hours: Tu 10-11am, We 1-2pm

Communication Policy

To discuss the course material and homework assignments, the office hours and in-person discussions are best. Email, on the other hand, is generally best to get in touch with me about organizational matters. I try to respond to all emails within 24 hours from Monday at 9:00am to Thursday at 5:00pm. Emails sent on the weekends may have a longer response time.

Course Description

This is the first semester of a 2-semester sequence. The first semester focuses on the basic principles of measure and integration, which is essential in many areas of mathematics, in particular in analysis and probability. The topics covered in this semester cover most of the following: Measures, measurable functions, integration, convergence for sequences of functions, elementary Hilbert space theory and Banach spaces, for example L^p -spaces.

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Prerequisites & Necessary Skills

An undergraduate sequence on real analysis such as Math 4331 and 4332, or equivalent.

Required Computer & Digital Literacy Skills

- Comfort using Canvas, sending email with attachments, downloading and installing software, and using video conferencing tools like Zoom.
- Proficiency using Microsoft Office programs like Word, PowerPoint, and Excel.
- Using online libraries and databases to locate and gather appropriate information.
- Using online search tools for specific academic purposes, including the ability to use search criteria, keywords, and filters.
- Properly citing information sources.
- Preparing a presentation of research findings.

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Required Texts and Materials

Walter Rudin, Real and Complex Analysis, 3rd edition, McGraw Hill, 1986. Optional: Gerald Folland, Real Analysis, 2nd edition, Wiley-Interscience, 1999.

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Technical Requirements

You will need the following in order to participate in this course:

1. Computer hardware requirements:
 - A laptop or desktop computer
 - An internet connection
 - Speakers and a microphone – built-in or USB plug-in or wireless Bluetooth
 - A webcam or HD webcam - built-in or USB plug-in
2. Computer software requirements:
 - Adobe Acrobat or a similar PDF reader
 - Web Browser
 - Desktop version of Zoom (Optional)
 - Microsoft Word, PowerPoint, Excel (Optional - consider how you have students submit assignments)
3. Internet browser requirements:
 - Up-to-date
 - Google Chrome or Mozilla Firefox are recommended
4. Internet connection speed requirements:
 - Broadband wired or wireless (3G or 4G/LTE)

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Technical Support

Students who need help accessing Canvas, resetting a password, using email, or with any technology problems, can contact their campus IT Helpdesk through [Live Chat \(https://gethelp.uh.edu/#/live_chat\)](https://gethelp.uh.edu/#/live_chat), [email \(mailto:uitsupport@uh.edu\)](mailto:uitsupport@uh.edu), phone-tel:1-713-743-1411 or by [submitting a support ticket. \(https://gethelp.uh.edu/#/ticket/students\)](#)

Students can also find answers to frequently asked technology questions in the [UH Knowledge Base \(https://gethelp.uh.edu/#/\)](https://gethelp.uh.edu/#/) or in the [University Information Technology \(UITS\) quickstart guide \(https://www.uh.edu/infotech/help/quick-start-guides/student-quick-start/#quickstartfeedback\)](https://www.uh.edu/infotech/help/quick-start-guides/student-quick-start/#quickstartfeedback)

Course Technology Accessibility Statements and Privacy Policies

- **Canvas Accessibility Statement:** [\(https://www.canvaslms.com/accessibility\)](https://www.canvaslms.com/accessibility) This course uses technologies that may support accessibility in different ways.
- **Canvas Privacy Policy** [↗ \(https://www.instructure.com/policies/product-privacy-policy\)](https://www.instructure.com/policies/product-privacy-policy): This course uses technologies that provide privacy.
- A link to an accessibility statement and privacy policy should be provided for any additional technology. Clicking here will take you to a page with links to [accessibility statements and privacy policies \(https://www.uh.edu/marcom/guidelines-policies/web-accessibility/#:~:text=All%20University%20web%20pages%20should,access%20your%20information%20the%20better.](https://www.uh.edu/marcom/guidelines-policies/web-accessibility/#:~:text=All%20University%20web%20pages%20should,access%20your%20information%20the%20better.) commonly used by faculty at UH.

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Course Assessment & Grades

Course Assessment:

You will be graded in two ways: Assignments and Exams. Grades will be posted on Grade-book. Please submit all work in person; do not send anything to my email address for grading. As you progress through the class, I may contact you through email if I see you are having difficulties. Please ensure that you are checking your university email and your course page in Canvas daily. You should be able to complete all work required in this course by devoting 2-3 hours each day to the class. Of course, you know yourself best and are aware if you need additional time for reading and writing.

- **Assignments:** There will be 8 or 9 homework assignments, due on Thursdays at the beginning of class. These assignments will often ask you to prove statements related to the current material or find examples for statements discussed in class.
- **Exams:** The Midterm Exam is in class, on October 10. The Final Exam will be held as scheduled by the registrar.

How Will I Know How I'm Doing in This Course?

Grades will be posted in Canvas within 96 hours of the due date. Since Canvas keeps track of all of your grades, you should always be able to calculate your current grade in the course. If you need assistance, please contact me.

Sample Grading Scheme

Assignment	Percentage of Final Grade
Homework	30
Midterm	30
Final	40
Total	100

Grading Scale

Grade	Equivalent Percentage
A+	100%
A	91%-99%
A-	90%
B+	89%
B	81%-88%
B-	80%
C+	79%
C	71%-78%
C-	70%
D	60%-69%
F	>60%

Note: If you are on track for a D, you are failing the course.

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Late Work

Late work will only be accepted with documentation of a medical emergency or extenuating circumstances.

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University Policies

Accommodations

Every attempt will be made to accommodate qualified students with disabilities (e.g. mental health, learning, chronic health, physical, hearing, vision neurological, etc.) You must have established your eligibility for support services through the appropriate office that services students with disabilities. Note that services are confidential, may take time to put into place and are not retroactive; Captions and alternate media for print materials may take three or more weeks to get produced. Please contact your campus office as soon as possible if accommodations are needed. Find [your campus office serving students with disabilities \(https://uh.edu/accessibility/\)](https://uh.edu/accessibility/).

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Intellectual Dishonesty

All work should be your original product, unless explicitly noted otherwise. Any materials you reference or take from others should be properly cited. Cheating, plagiarism, or fabrication in any form will not be tolerated, regardless of any justification.

Academic misconduct will not be tolerated. The minimum consequence is failing the assignment. In a case of more serious offense, a student may fail the course. **Students should NOT present work from other courses in this class (i.e., using pieces of previous papers you have done is considered plagiarism).** I may use the services of Turnitin.com to check for originality of your written work.

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Title IX Sexual Misconduct

As your instructor, one of my responsibilities is to help create a safe learning environment on our campus. Title IX and our own Sexual Misconduct policy prohibit sexual misconduct. If you have experienced sexual misconduct, or know someone who has, the University can help. If you are seeking help and would like to speak to someone confidentially, you can make an appointment with [CAPS \(https://www.uh.edu/caps/\)](https://www.uh.edu/caps/).

It is also important that you know that federal regulations and University policy require me to promptly convey any information about potential sexual misconduct known to me to our Deputy Title IX Coordinator or UH's Title IX Coordinator. In that event, they will work with a small number of others on campus to ensure that appropriate measures are taken and resources are made available to the student who may have been harmed. Protecting a student's privacy is of utmost concern, and all involved will only share information with those that need to know to ensure the University can respond and assist.

Code of Student Rights, Responsibilities, and Conduct

Students are expected to adhere to the Code of Student Rights, Responsibilities, and Conduct at all times. Any inappropriate behavior, disruptive conduct (e.g., engaging in hostile or disrespectful commentary on the site, or discussing irrelevant evidence) or non-compliance with faculty directions can result in a charge of Academic and/or Personal Misconduct, the consequence of which could be a variety of sanctions either from the instructor or the Dean of Students.

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Grade Appeal

If you believe the grade received in a course is incorrect, you should follow the Grade Appeal Policy. The initial appeals process states that... **[Note: Please modify this to fit your course/campus.]**

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Dropping a Course

During the first week of classes you may drop a class with no grade recorded on your transcript. From the second week of classes through the ninth week (the 'auto W' period), you may withdraw from a class with an automatic grade of 'W'. This will be recorded on your transcript, but not included in your GPA.

After the ninth week (and before the final exam period), a student wishing to withdraw with a grade of 'W' must be passing the course at that time. You must complete a 'Drop Only' form and contact the offices listed for signatures before giving the form to the instructor. The instructor will confirm on the form that you are passing at that time for a 'W' grade or that your grade is an 'F'. This 'F' grade WILL be included in calculation of your GPA.

Faculty members are required to report any student who stops attending a class and does not withdraw (with a grade of 'W' or 'F'). Failure of a course due to non-attendance may affect financial aid award amounts.

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Course Expectations

Online Etiquette

It is important to build a class climate that is welcoming and safe for everyone. Please display respect for everyone in the class. You should avoid racist, sexist, homophobic, or other negative language that may exclude members of our campus and classroom community.

- Humor and sarcasm don't translate very well when using email or online discussions. Be careful. I **will delete** any posting that I believe is inappropriate.
- Keep in mind that there's a real, live human being with feelings on the other end of your email or discussion posting--if you were sitting in front of that person would you say to their face what you're saying in your email or discussion posting? Remember that your words are written in an email or discussion posting -- you can't take them back.

- Avoid offensive language, especially comments that might be construed as racist or sexist.
- Remember that the law still applies in cyberspace. Do not commit illegal acts online, such as libeling or slandering others, and do not joke about committing illegal acts.
- Do not post a message more than once.
- Generally speaking, avoid putting words into full capitals. Online, all-caps is considered SHOUTING.
- If you are following up a previous message or posting, summarize that message or posting. Read existing follow-up postings and don't repeat what has already been said.
- Reveal only information that you are comfortable sharing.

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Participation

You should be logging onto Canvas at least three times a week to view assignments, presentations, contribute to discussions, post questions, read posting of others, etc. Activities and assignments will be posted in advance providing ample time for completion. Please plan your schedules accordingly.

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Course Absence

If you plan to be absent from class activities for longer periods of time because of a sport, school, medical, or family event, please let me know and complete your work in advance. For a scheduled exam/quiz, forum, or other course events, arrange with me for earlier date. In case you miss these scheduled events, you will receive a zero.

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Plagiarism

Honesty requires that any ideas or materials taken from another source for either written or oral use must be fully acknowledged. Offering the work of someone else as one's own is plagiarism. The language or ideas thus taken from another may range from isolated formulas, sentences, or paragraphs to entire articles copied from books, periodicals, speeches, or the writings of other students. The offering of materials assembled or collected by others in the form of projects or collections without acknowledgment also is considered plagiarism. Any student who fails to give credit for ideas or materials taken from another source is guilty of plagiarism.

Please see the [UH Academic Honesty Policy \(https://uh.edu/provost/policies-resources/honesty/\)](https://uh.edu/provost/policies-resources/honesty/) page for more information.

1. Directly quoting another person's actual words, whether oral or written;
2. Using another person's ideas, opinions, or theories;
3. Paraphrasing the words, ideas, opinions, or theories of others, whether oral or written;
4. Borrowing facts, statistics, or illustrative material; or
5. Offering materials assembled or collected by others in the form of projects or collections without acknowledgement.

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Syllabus Revision

The instructor reserves the right to revise or adjust the course syllabus to best accommodate the pace and needs of the students.

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Fair Use Policy

Copying or recording synchronous classes and asynchronous course materials without the express prior approval of [the professor] is prohibited. All copies and recordings remain the property of Indiana University and [the professor.] UH and [the professor] reserve the right to retrieve, inspect, or destroy the copies and recordings after their intended use. These policies are not intended to affect the rights of students with disabilities under applicable law or UH policies.


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More on Resources

Mental Health and Wellness Resources

The University of Houston has a number of resources to support students' mental health and overall wellness, including [CoogsCARE \(https://uh.edu/coogs-care/\)](https://uh.edu/coogs-care/) and the [UH Go App \(https://uh.edu/go/\)](https://uh.edu/go/). UH [Counseling and Psychological Services \(CAPS\) \(https://uh.edu/caps/services/\)](https://uh.edu/caps/services/) offers 24/7 mental health support for all students, addressing various concerns like stress, college adjustment and sadness. CAPS provides individual and couples counseling, group therapy, workshops and connections to other support services on and off-campus. For assistance visit [uh.edu/caps \(https://uh.edu/caps/\)](https://uh.edu/caps/), call **713-743-5454**, or visit a [Let's Talk \(https://www.uh.edu/caps/outreach/lets-talk/\)](https://www.uh.edu/caps/outreach/lets-talk/) location in-person or virtually. [Let's Talk \(https://www.uh.edu/caps/outreach/lets-talk/\)](https://www.uh.edu/caps/outreach/lets-talk/) are daily, informal confidential consultations with CAPS therapists where no appointment or paperwork is needed.

Need Support Now?

If you or someone you know is struggling or in crisis, help is available. Call CAPS crisis support 24/7 at 713-743-5454, or the National Suicide and Crisis Lifeline: call or text 988, or chat 988lifeline.org  (<https://988lifeline.org>).

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 \(https://uh.edu/equal-opportunity/title-ix-sexual-misconduct/resources/\)](https://uh.edu/equal-opportunity/title-ix-sexual-misconduct/resources/).

Reasonable Academic Adjustments/Auxiliary Aids

[\(https://uh.edu/accessibility/\)](https://uh.edu/accessibility/)

The University of Houston is committed to providing an academic environment and educational programs that are

accessible for its students. Any student with a disability who is experiencing barriers to learning, assessment or participation is encouraged to contact the Justin Dart, Jr. Student Accessibility Center (Dart Center) to learn more about academic accommodations and support that may be available to them. Students seeking academic accommodations will need to register with the Dart Center as soon as possible to ensure timely implementation of approved accommodations. Please contact the Dart Center by visiting the website: [Justin Dart Jr. Student Accessibility Center, \(https://uh.edu/accessibility/\)](https://uh.edu/accessibility/) calling (713) 743-5400, or emailing [jdcenter@Central.UH.EDU \(mailto:jdcenter@Central.UH.EDU\)](mailto:jdcenter@Central.UH.EDU).

The [Student Health Center \(https://uh.edu/healthcenter/services/medical-services/psychiatry-clinic/\)](https://uh.edu/healthcenter/services/medical-services/psychiatry-clinic/) offers a Psychiatry Clinic for enrolled UH students. Call **713-743-5145** during clinic hours, Monday through Friday 8 a.m. - 4:30 p.m. to schedule an appointment.

The [A.D. Bruce Religion Center \(https://www.uh.edu/adbruce/\)](https://www.uh.edu/adbruce/) offers spiritual support and a variety of programs centered on well-being.

The [Center for Student Advocacy and Community \(CSAC\) \(https://uh.edu/csac/cougar-cupboard/\)](https://uh.edu/csac/cougar-cupboard/) is where you can go if you need help but don't know where to start. CSAC is a "home away from home" and serves as a [resource hub \(https://uh.edu/csac/resources/\)](https://uh.edu/csac/resources/) to help you get the resources needed to support academic and personal success. Through our [Cougar Cupboard \(https://uh.edu/csac/cougar-cupboard/\)](https://uh.edu/csac/cougar-cupboard/), all students can get up to 30 lbs of FREE groceries a week. Additionally, we provide 1:1 appointments to get you connected to on- and off-campus resources related to essential needs, safety and advocacy, and more. The [Cougar Closet ↗ \(https://www.instagram.com/cougarcloset/\)](https://www.instagram.com/cougarcloset/) is a registered student organization advised by our office and offers free clothes to students so that all Coogs can feel good in their fit. We also host a series of cultural and community-based events that foster social connection and help the Cougar community come closer together. Visit the CSAC homepage or follow us on Instagram: @uh_CSAC and @uhcupbrd. YOU belong here.

Women and Gender Resource Center

The mission of the [WGRC \(https://uh.edu/wgrc/\)](https://uh.edu/wgrc/) is to advance the University of Houston and promote the success of all students, faculty, and staff through educating, empowering, and supporting the UH community. The WGRC suite is open to you. Stop by the office for a study space, to take a break, grab a snack, or check out one of the WGRC programs or resources. Stop by Student Center South room B12 (Basement floor near Starbucks and down the hall from Creation Station) from 9 am to 5 pm Monday through Friday.

Recording of Class

Students may not record all or part of a class, live stream all or part of the class, or make/distribute screen captures, without the 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 \(https://uh.edu/accessibility/\)](https://uh.edu/accessibility/). 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 the instructor's recordings for their own studying and note-taking. 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.

Resources for Online Learning

The University of Houston is committed to student success and provides information to optimize the online learning

experience through our [PowerOn website \(https://uh.edu/power-on/learning/\)](https://uh.edu/power-on/learning/). Please visit this website for a comprehensive set of resources, tools, and tips including obtaining access to the internet, AccessUH, Blackboard, and Canvas; using your smartphone as a webcam, and downloading Microsoft Office 365 at no cost. For questions or assistance contact [UHOnline@uh.edu. \(mailto:UHOnline@uh.edu.\)](mailto:UHOnline@uh.edu)

UH Email

Please check and use your CougarNet email for communications related to this course. Faculty use the CougarNet email to respond to course-related inquiries such as grade queries or progress reports for reasons of FERPA. To access your CougarNet email, [login to your Microsoft 365 account \(https://uh.edu/infotech/services/office365/how-to-login/\)](https://uh.edu/infotech/services/office365/how-to-login/) with your CougarNet credentials. Visit [University Information Technology \(UIT\) \(https://uh.edu/infotech/services/accounts/email/email-faq/\)](https://uh.edu/infotech/services/accounts/email/email-faq/) for instructions on how to connect your CougarNet e-mail on a mobile device.

Webcams

Access to a webcam is required for students participating remotely in this course. Webcams must be turned on (state *when* webcams are required to be on and the *academic basis* for requiring them to be on). (Example: Webcams must be turned on during exams to ensure the academic integrity of exam administration.)

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 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 on [the parking and transportation website. \(https://uh.edu/af-university-services/parking/\)](https://uh.edu/af-university-services/parking/)

Artificial Intelligence

The use of AI-related tools is prohibited for the purposes of this course. Involving AI tools to complete homework will be considered as plagiarism.

Helpful Information

- [Coogs Care \(https://uh.edu/dsa/coogscare/\)](https://uh.edu/dsa/coogscare/)
- [Student Health Center \(https://www.uh.edu/healthcenter/\)](https://www.uh.edu/healthcenter/)

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Course Summary:

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