

Math 4309-110, CRN 80391, Advanced Analysis 1

Fall 2018 rev. 08.01.2018

Texas A&M University-Central Texas

INSTRUCTOR AND CONTACT INFORMATION

Instructor: Justin R. Hill

Office: Email or Text

Phone: 352-870-5962

Email: justin.hill@tamuct.edu

Office Hours:

Please email me; or call/text me anytime M-Th from 9:30AM - 11PM and 1:00PM - 5PM

Mode of instruction and course access:

This course meets face-to-face. It does not use Canvas.

Student-instructor interaction:

As mentioned above, please feel free to call/text me during those times; and otherwise email me as you have questions, etc. I generally respond within a day; and if you hit me one way and I haven't responded yet, just go ahead and hit me the other way, and I'll get back to you :).

911 Cellular:

Emergency Warning System for Texas A&M University-Central Texas

911Cellular is an emergency notification service that gives Texas A&M University-Central Texas the ability to communicate health and safety emergency information quickly via email, text message, and social media. All students are automatically enrolled in 911Cellular through their myCT email account.

Connect at [911Cellular](https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management) [https://portal.publicsafetycloud.net/Texas-AM-Central/alert-management] to change where you receive your alerts or to opt out. By staying enrolled in 911Cellular, university officials can quickly pass on safety-related information, regardless of your location.

Required Reading and Textbook(s): Spivak, Calculus; 4th Ed., Publish or Perish; Houston

COURSE REQUIREMENTS

Course Requirements: (include point values for each- not just a percentage)

- Reading and Homework Assignments: 25%, or 250 points
- Test 1: 25%, or 250 points
- Test 2: 25%, or 250 points
- Final: 25%, or 250 points

Grading Criteria Rubric and Conversion

- Reading Assignments will be graded on completion
- All other Homework and Tests will be graded on how correct the proofs are.

Posting of Grades

- I will carry an Excel file with me of your grades; just ask, and I'll get you either you're exact grade or very close.

COURSE OUTLINE AND CALENDAR

Complete Course Calendar

Monday	Tuesday	Wednesday	Thursday
Aug. 27 th	Aug. 28 th 1. Basic Properties of Numbers 28. Fields	Aug. 29 th Reading: None	Aug. 30 th Homework:

<p>Sept. 3rd</p> <p>Labor Day!!</p>	<p>Sept. 4th</p> <p>28. Fields</p> <p>2. Induction, Well Ordering</p>	<p>Sept. 5th</p> <p>Reading:</p>	<p>Sept. 6th</p> <p>Homework:</p>
<p>Sept. 10th</p>	<p>Sept. 11th</p> <p>3. Functions</p> <p>4. Graphs</p>	<p>Sept. 12th</p> <p>Reading:</p>	<p>Sept. 13th</p> <p>Homework:</p>

<p>Sept. 17th</p>	<p>Sept. 18th</p> <p>5. Limits</p> <p>6. Continuous Functions</p>	<p>Sept. 19th</p> <p>Reading:</p>	<p>Sept. 20th</p> <p>Homework:</p>
<p>Sept. 24th</p>	<p>Sept. 25th</p> <p>7. Three Hard Theorems</p> <p>8. Bounds</p>	<p>Sept. 26th</p> <p>Reading:</p>	<p>Sept. 27th</p> <p>Homework:</p>

Oct. 1st	Oct. 2nd 8 Appendix: Uniform Continuity Review for Test 1	Oct. 3rd Reading:	Oct. 4th Homework:
Oct. 8th	Oct. 9th Test 1	Oct. 10th	Oct. 11th

Oct. 15th	Oct. 16th 9. How to Derive 10. Differentiating Everything	Oct. 17th Reading:	Oct. 18th Homework:
Oct. 22nd	Oct. 23rd 10. Differentiating Everything	Oct. 24th Reading:	Oct. 25th Homework:

Oct. 29th	Oct. 30th 11. Maxima, Minima	Oct. 31st Reading:	Nov. 1st Homework:
Nov. 5th	Nov. 6th 11. Convexity, Concavity	Nov. 7th Reading:	Nov. 8th Homework:

Nov. 12th	Nov. 13th 12. Inverse Functions Review for Test 2	Nov. 14th Reading:	Nov. 15th Homework:
Nov. 19th	Nov. 20th Test 2	Nov. 21st Thanksgiving!!	Nov. 22nd Thanksgiving!!

<p>Nov. 26th</p>	<p>Nov. 27th</p> <p>13. Integrals</p>	<p>Nov. 28th</p> <p>Reading:</p>	<p>Nov. 29th</p> <p>Homework:</p>
<p>Dec. 3rd</p>	<p>Dec. 4th</p> <p>14. The Fundamental Theorem of Calculus</p> <p>Review for Final</p>	<p>Dec. 5th</p> <p>Reading:</p>	<p>Dec. 6th</p> <p>Homework:</p>

Dec. 10th	Dec. 11th Final	Dec. 12th	Dec. 13th
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Important University Dates:

August 27, 2018 Add, Drop, and Late Registration Begins for 16- and First 8-Week Classes. \$25 fee assessed for late registrants.

August 27, 2018 Classes Begin for Fall Semester

August 29, 2018 Deadline for Add, Drop, and Late Registration for 16- and First 8-Week Classes

September 3, 2018 Labor Day (*University Closed*)

September 4, 2018 Deadline to Drop First 8-Week Classes with No Record

September 12, 2018 Deadline to drop 16-Week Classes with No Record

October 1, Deadline for Teacher Education and Professional Certification

2018 Applications (i.e. Principal, Reading Specialist, etc.)

October 5, 2018 Deadline to Drop First 8-Week Classes with a Quit (Q) or Withdraw (W)

October 5, 2018 Deadline for Graduation Application for Ceremony Participation

October 5, 2018 Student End of Course Survey Opens (First 8-Week Classes)

October 12, 2018 Deadline for Fall Admissions Applications

October 15, 2018 Deadline for Clinical Teaching Applications

October 19, 2018 Classes End for First 8-Week Session

October 19, 2018 Deadline for Tuition and Fee Payments (Second 8-Week Classes)

October 19, 2018 Deadline to Withdraw from University for First 8-Week Classes (WF)

October 22, 2018 Add, Drop, and Late Registration Begins for Second 8-Week Classes.
\$25 fee assessed for late registrants

October 22, 2018	Classes Begin for Second 8-Week Session
October 22, 2018	Student End of Course Survey Closes (First 8-Week Classes)
October 23, 2018	Deadline for Faculty Submission of First 8-Week Class Final Grades (due by 3pm)
October 24, 2018	Deadline for Add, Drop, and Late Registration for Second 8-Week Classes
October 29, 2018	Deadline to Drop Second 8-Week Classes with No Record
November 1, 2018	Deadline for GRE/GMAT Scores to Office of Graduate Studies
November 9, 2018	Deadline to Drop 16-Week Classes with a Quit (Q) or Withdraw (W)
November 12, 2018	Veterans Day (<i>Observed</i>) - No Class (<i>University Open</i>)
November 16, 2018	Deadline for Final Committee-Edited Theses with Committee Approval Signatures to Office of Graduate Studies for Fall Semester
November 22, 2018	Thanksgiving (<i>University Closed</i>)

November 23, 2018 Thanksgiving (*University Closed*)

November 30, 2018 Deadline to Drop Second 8-Week Classes with a Quit (Q) or Withdraw (W)

December 1, 2018 Student End of Course Survey Opens (16- and Second 8-Week Classes)

December 14, 2018 Commencement Ceremony Bell County Expo Center 7:00 p.m.

December 14, 2018 Deadline for Applications for \$1,000 Tuition Rebate for Fall Graduation (5pm)

December 14, 2018 Deadline for Fall Degree Conferral Applications to the Registrar's Office. \$20 Late Application Fee.

December 14, 2018 Deadline to Withdraw from University for 16- and Second 8-Week Classes

December 14, 2018 Fall Semester Ends

December 17, 2018 Student End of Course Survey Closes (16- and Second 8-Week Classes)

December 18, 2018 Deadline for Faculty Submission of 16-Week and Second 8-Week Final Class Grades (due by 3pm)

UNIVERSITY RESOURCES, PROCEDURES, AND GUIDELINES

Drop Policy.

If you discover that you need to drop this class, you must complete a [Drop Request Form](https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf) [https://www.tamuct.edu/registrar/docs/Drop_Request_Form.pdf].

Professors cannot drop students; this is always the responsibility of the student. The Registrar's Office will provide a deadline on the Academic Calendar for which the form must be completed, signed and returned. Once you return the signed form to the Registrar's Office, you must go into Warrior Web and confirm that you are no longer enrolled. If you still show as enrolled, FOLLOW-UP with the Registrar's Office immediately. You are to attend class until the procedure is complete to avoid penalty for absence. Should you miss the drop deadline or fail to follow the procedure, you will receive an F in the course, which may affect your financial aid and/or VA educational benefits.

Academic Integrity.

Texas A&M University -Central Texas values the integrity of the academic enterprise and strives for the highest standards of academic conduct. A&M-Central Texas expects its students, faculty, and staff to support the adherence to high standards of personal and scholarly conduct to preserve the honor and integrity of the creative community. Academic integrity is defined as a commitment to honesty, trust, fairness, respect, and responsibility. Any deviation by students from this expectation may result in a failing grade for the assignment and potentially a failing grade for the course. Academic misconduct is any act that improperly affects a true and honest evaluation of a student's academic performance and includes, but is not limited to, cheating on an examination or other academic work, plagiarism and improper citation of sources, using another student's work, collusion, and the abuse of resource materials. All academic misconduct concerns will be reported to the university's Office of Student Conduct. Ignorance of the university's standards and expectations is never an excuse to act with a lack of integrity. When in doubt on collaboration, citation, or any issue, please contact your instructor before taking a course of action.

A Note about Sexual Violence at A&M-Central Texas

Sexual violence is a serious safety, social justice, and public health issue. The university offers support for anyone struggling with these issues. University faculty are mandated reporters, so if someone discloses that they were sexually assaulted (or a victim of Domestic/Dating Violence or Stalking) while a student at TAMUCT, faculty members are required to inform the Title IX Office. If you want to discuss any of these issues confidentially, you can do so through Student Counseling (254-501-5955) located on the second floor of Warrior Hall (207L).

Sexual violence can occur on our campus because predators often feel emboldened, and victims often feel silenced or shamed. It is incumbent on ALL of us to find ways to actively

create environments that tell predators we don't agree with their behaviors and tell survivors we will support them. Your actions matter. Don't be a bystander; be an agent of change. For additional information on campus policy and resources visit the [Title IX webpage](https://www.tamuct.edu/departments/compliance/titleix.php) [https://www.tamuct.edu/departments/compliance/titleix.php].

Academic Accommodations.

At Texas A&M University-Central Texas, we value an inclusive learning environment where every student has an equal chance to succeed and has the right to a barrier-free education. The Office of Access and Inclusion is responsible for ensuring that students with a disability receive equal access to the university's programs, services and activities. If you believe you have a disability requiring reasonable accommodations please contact the Office of Access and Inclusion at (254) 501-5831. Any information you provide is private and confidential and will be treated as such.

For more information please visit our [Access & Inclusion](https://www.tamuct.edu/student-affairs/access-inclusion.html) web page [https://www.tamuct.edu/student-affairs/access-inclusion.html].

Important information for Pregnant and/or Parenting Students.

Texas A&M University-Central Texas supports students who are pregnant and/or parenting. In accordance with requirements of Title IX and related guidance from US Department of Education's Office of Civil Rights, the Dean of Student Affairs' Office can assist students who are pregnant and/or parenting in seeking accommodations related to pregnancy and/or parenting. Students should seek out assistance as early in the pregnancy as possible. For more information, please visit the [Student Affairs](https://www.tamuct.edu/student-affairs/index.html) web page [https://www.tamuct.edu/student-affairs/index.html]. Students may also contact the institution's Title IX Coordinator. If you would like to read more about these [requirements and guidelines online](http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf), please visit the website [http://www2.ed.gov/about/offices/list/ocr/docs/pregnancy.pdf].

Title IX of the Education Amendments Act of 1972 prohibits discrimination on the basis of sex and gender—including pregnancy, parenting, and all related conditions. A&M-Central Texas is able to provide flexible and individualized reasonable accommodation to pregnant and parenting students. All pregnant and parenting students should contact the Associate Dean in the Division of Student Affairs at (254) 501-5909 to seek out assistance. Students may also contact the University's Title IX Coordinator.

Tutoring.

Tutoring is available to all A&M-Central Texas students, both on-campus and online. Subjects tutored on campus include Accounting, Advanced Math, Biology, Finance, Statistics, Mathematics, and Study Skills. Tutors are available at the Tutoring Center in Warrior Hall, Suite 111.

If you have a question regarding tutor schedules, need to schedule a tutoring session, are interested in becoming a tutor, or have any other question, contact Academic Support Programs at (254) 519-5796, or by emailing Dr. DeEadra Albert-Green at deeadra.albertgreen@tamuct.edu.

Chat live with a tutor 24/7 for almost any subject from on your computer! Tutor.com is an online tutoring platform that enables A&M-Central Texas students to log in and receive FREE online tutoring and writing support. This tool provides tutoring in over 40 subject areas. Access Tutor.com through Canvas.

University Writing Center.

Located in Warrior Hall 416, the University Writing Center (UWC) at Texas A&M University–Central Texas (TAMUCT) is a free workspace open to all TAMUCT students from 10:00 a.m.-5:00 p.m. Monday thru Thursday with satellite hours in the University Library Monday thru Thursday from 6:00-9:00 p.m. This semester, the UWC is also offering online only hours from 12:00-3:00 p.m. on Saturdays.

Students may arrange a one-on-one session with a trained and experienced writing tutor by visiting the UWC during normal operating hours (both half-hour and hour sessions are available) or by making an appointment via [WOnline](https://tamuct.mywconline.com/) at [https://tamuct.mywconline.com/]. In addition, you can email Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu for any assistance needed with scheduling.

Tutors are prepared to help writers of all levels and abilities at any stage of the writing process. While tutors will not write, edit, or grade papers, they will assist students in developing more effective composing practices. By providing a practice audience for students' ideas and writing, our tutors highlight the ways in which they read and interpret students' texts, offering guidance and support throughout the various stages of the writing process. In addition, students may work independently in the UWC by checking out a laptop that runs the Microsoft Office suite and connects to WIFI, or by consulting our resources on writing, including all of the relevant style guides. Whether you need help brainstorming ideas, organizing an essay, proofreading, understanding proper citation practices, or just want a quiet place to work, the UWC is here to help!

If you have any questions about the UWC, please do not hesitate to contact Dr. Bruce Bowles Jr. at bruce.bowles@tamuct.edu.

University Library.

The University Library provides many services in support of research across campus and at a distance. We offer over 200 electronic databases containing approximately 250,000 eBooks and 82,000 journals, in addition to the 85,000 items in our print collection, which can be mailed to students who live more than 50 miles from campus. Research guides for each subject taught at A&M-Central Texas are available through our website to help students navigate these resources. On campus, the library offers technology including cameras, laptops, microphones, webcams, and digital sound recorders.

Research assistance from a librarian is also available 24 hours a day through our online chat

service, and at the reference desk when the library is open. Research sessions can be scheduled for more comprehensive assistance, and may take place on Skype or in-person at the library. Assistance may cover many topics, including how to find articles in peer-reviewed journals, how to cite resources, and how to piece together research for written assignments.

Our 27,000-square-foot facility on the A&M-Central Texas main campus includes student lounges, private study rooms, group work spaces, computer labs, family areas suitable for all ages, and many other features. Services such as interlibrary loan, TexShare, binding, and laminating are available. The library frequently offers workshops, tours, readings, and other events. For more information, please visit our [Library website](http://tamuct.libguides.com/index) [http://tamuct.libguides.com/index].

TECHNOLOGY SUPPORT

For log-in problems, students should contact Help Desk Central.

24 hours a day, 7 days a week:

Email: helpdesk@tamu.edu

Phone: (254) 519-5466

[Web Chat](http://hdc.tamu.edu): [http://hdc.tamu.edu]

Please let the support technician know you are an A&M-Central Texas student.
