

THE UNIVERSITY OF TEXAS AT EL PASO

COLLEGE OF SCIENCE

DEPARTMENT OF MATHEMATICAL SCIENCES

COURSE BASICS

Course Number: MATH 1319 CRN 11424

Course Title: Math in the Modern World

Credit Hours: 3

Term: Fall 2021

Meeting and Location: Online via Blackboard

Prerequisite Courses: Math 0311 with a grade of at least "C" or placement by testing services

INSTRUCTOR INFORMATION

Instructor: Tuesday J. Johnson

Office Location: Bell Hall 119

Contact

Instructor email: tjohnson3@utep.edu

Math Department: mathdept@utep.edu

Emails will be answered between 10:00 am and 2:00 pm each day Monday through Thursday. Emails received outside of these windows will be addressed during the next time period or at my discretion, whichever is sooner.

Student Office Hours:

Student office hours are a time where you can get individualized help from me. I am available to answer questions about course content and address any concerns you have about the class. During scheduled times, you may drop in without an appointment. You are not required to attend the sessions if you do not have questions. If you do need help, and cannot attend during the scheduled time, please email me to schedule an appointment.

Office hours are only held during normal university scheduling. Please allow one business day for the return of emails. Evening and weekend emails will be attended to during regular business hours. Other times at the discretion of the instructor.

During off-scheduling (Finals week) or condensed scheduling (late start, closed university) hours will be adjusted appropriately.

REQUIRED TECHNOLOGY AND MATERIALS

Textbook

The Heart of Mathematics, An Invitation to Effective Thinking, 4th edition, by Edward B. Burger and Michael Starbird. Published by Key College Publishing.

Materials

Student Interactive Explorations CD and 3D glasses, packaged with the text.

Calculator

A calculator is acceptable and encourage in this class. You do not have to have a big fancy calculator, the TI-30XIIS is absolutely the best calculator for the money at around \$15.

COURSE OVERVIEW

Blackboard

Blackboard will be our primary platform. Inside of the Blackboard course you will be able to view announcements (also sent to your email), assignments with submission button, notes, and any other video I find applicable to the course. You should not have to “Google” anything for this class.

The course will be set up in two-week modules with all the work from those two weeks due at the end of the time period. You may submit as you complete the work throughout the module or you may submit at the deadline. Late work will not be accepted.*

*All work will have a due date of Friday, but will be accepted through Sunday of the weekend immediately following without penalty. Late work will not be accepted starting Monday at midnight of the week immediately after the due date, unless that Monday is an official UTEP holiday.

Grading

Your grade will be determined by an accumulation of points. Each of our 7 modules will be worth 100 points. The total number of points available will be 700. Your grade breakdown is:

630 – 700 = A

560 – 629 = B

490 – 559 = C

420 – 489 = D

000 – 419 = F

Assignment Types

Your assignments will consist of a mix of thought provoking questions with essay answers along with actual math computations. I expect all work to be shown in the work problems and complete sentences and complete thoughts on the essay answers. There will be no quizzes or exams in this course.

Campus Schedule

A comprehensive course schedule is attached as the last pages of this syllabus. Semester highlights are included.

- August 23rd First Day of Classes
- September 6th Labor Day Holiday
- September 8th Census Day (Last day to drop without a W)
- October 29th Drop Day (Last day to drop with a W)
- November 25-26th Thanksgiving Holiday
- December 2nd Last Day of Class Meetings

- December 3rd Dead day
- December 6-10th Final Exam Week

Drop Policy

The Drop Date for this semester is Friday, October 29th, 2021, before 5:00 PM MDT. No drops will be approved after this date or time.

Students who decide to drop the course must process a drop form by sending an email from your miners email account to records@utep.edu by Oct 29 before 5:00 PM MDT. Please note that the College of Science will remain aligned with the university and **will not approve any drop requests after that date.**

Incomplete Grade Policy

Incomplete grades may be requested only in exceptional circumstances after you have completed at least half of the course requirements. Talk to me immediately if you believe an incomplete is warranted. If granted, we will establish a contract of work to be completed with deadlines.

Course Communication

Because this is an online class, we won't see each other in the ways you may be accustomed to: during class time, small group meetings, and office hours. However, there are several ways we can keep the communication channels open:

- **Student Office Hours:** I will have office hours for your questions and comments about the course. These will be virtual. See Blackboard for more information about times and availability.
- **Course Messages:** Course messages in Blackboard is the best way to reach me for class related items or questions that are not homework specific. I am a coordinator and an advisor, and my inbox every day is crowded. I will respond to Blackboard Course Messages twice daily and always before checking regular UTEP email. This is most definitely your best option at getting my response more quickly.
- **Email:** UTEP e-mail is a way to contact me. I will make every attempt to respond to your e-mail within 24-48 hours of receipt. When e-mailing me, be sure to email from your UTEP student account and please put the course number in the subject line. In the body of your e-mail, clearly state your question. At the end of your e-mail, be sure to put your first and last name, and your university identification number.
- **Announcements:** Check the Blackboard announcements frequently for any updates, deadlines, or other important messages. All Blackboard announcements will also be sent as an email to your UTEP account, but the announcements section will always archive these messages.

ADDITIONAL COURSE POLICIES AND STATEMENTS

Attendance

You are expected to work toward completion of the course assignments daily. Attendance in an online course is measured by the completed tasks. Failing to complete tasks is equivalent to being absent. Failure to complete assignments for several weeks may result in you being dropped from the course. You are expected to check Blackboard and your UTEP miners email regularly for announcements.

Academic Integrity

The University policy is that all suspected cases or acts of alleged scholastic dishonesty must be referred to the Dean of Students for investigation and appropriate disposition. Any student who commits an act

of scholastic dishonesty is subject to discipline. Scholastic dishonesty includes, but is not limited to cheating, plagiarism, collusion, the submission for credit of any work or materials that are attributable in whole or in part to another person, taking an examination for another person, and any act designed to give an unfair advantage to a student or the attempt to commit such acts.

Each student is responsible for notice of and compliance with the provisions of the Regents' Rules and Regulations, which are available for inspection electronically at <https://www.utsystem.edu/offices/board-regents/regents-rules-and-regulations>.

All students are expected and required to obey the law, comply with the Regents' Rules and Regulations, with System and University rules, with directives issued by an administrative official during his or her authorized duties, and observe standards of conduct appropriate for the university. A student who enrolls at the university is charged with the obligation to conduct himself/herself in a manner compatible with the university's function as an educational institution.

Any student who engages in conduct that is prohibited by Regents' Rules and Regulations, U. T. System or University rules, specific instructions issued by an administrative official or by federal, state, or local laws is subject to discipline, whether such conduct takes place on or off-campus or whether civil or criminal penalties are also imposed for such conduct.

Course Netiquette

All correspondence with your instructor, TA, and other students should be conducted in an appropriate and professional manner. Please be considerate of your tone and word choice when conducting correspondence.

Accommodations

The University is committed to providing reasonable accommodations and auxiliary services to students, staff, faculty, job applicants, applicants for admissions, and other beneficiaries of University programs, services and activities with documented disabilities in order to provide them with equal opportunities to participate in programs, services, and activities in compliance with sections 503 and 504 of the Rehabilitation Act of 1973, as amended, and the Americans with Disabilities Act (ADA) of 1990 and the Americans with Disabilities Act Amendments Act (ADAAA) of 2008. Reasonable accommodations will be made unless it is determined that doing so would cause undue hardship on the University. Students requesting an accommodation based on a disability must register with the UTEP Center for Accommodations and Support Services (CASS). Contact the Center for Accommodations and Support Services at 915-747- 5148, or email them at cass@utep.edu , or apply for accommodations online via the CASS portal.

COVID-19 Precautions

Please stay home if you have been diagnosed with COVID-19 or are experiencing COVID-19 symptoms. If you are feeling unwell, please let me know as soon as possible, so that we can work on appropriate accommodations. If you have tested positive for COVID-19, you are encouraged to report your results to covidaction@utep.edu, so that the Dean of Students Office can provide you with support and help with communication with your professors. The Student Health Center is equipped to provide COVID 19 testing.

The Center for Disease Control and Prevention recommends that people in areas of substantial or high COVID-19 transmission wear face masks when indoors in groups of people. The best way that Miners can take care of Miners is to get the vaccine. If you still need the vaccine, it is widely available in the El Paso

area, and will be available at no charge on campus during the first week of classes. For more information about the current rates, testing, and vaccinations, please visit epstrong.org

Please contact me immediately if you fall ill during the semester so that we can work together to formulate a strategy to help you get caught up as soon as you are physically able.

Military

If you are a military student, or a military affiliated student, thank you for your service and/or thank you for sharing your family member with the country. If you have the potential of being called to military service or training during the semester, you are encouraged to contact me as soon as you receive your orders so that we can make appropriate arrangements.

Copyright

Course Materials

All materials used in this course are protected by copyright law. The course materials are only for the use of students currently enrolled in this course and only for the purpose of this course. They may not be further disseminated.

Class Recordings

The use of recordings will enable you to have access to class lectures, group discussions, and so on in the event you miss a synchronous or in-person class meeting due to illness or other extenuating circumstance. Our use of such technology is governed by the Federal Educational Rights and Privacy Act (FERPA) and UTEP's acceptable-use policy. A recording of class sessions will be kept and stored by UTEP, in accordance with FERPA and UTEP policies. Your instructor will not share the recordings of your class activities outside of course participants, which include your fellow students, teaching assistants, or graduate assistants, and any guest faculty or community-based learning partners with whom we may engage during a class session. You may not share recordings outside of this course. Doing so may result in disciplinary action.

COURSE RESOURCES

Where you can go for assistance as UTEP provides a variety of student services and support:

Academic and Technology Resources

- **[Help Desk](#)**: Students experiencing technological challenges (email, Blackboard, software, etc.) can submit a ticket to the UTEP Helpdesk for assistance. Contact the Helpdesk via phone, email, chat, website, or in person if on campus, Academic Resources.
- **[UTEP Library](#)**: Access a wide range of resources including online, full-text access to thousands of journals and eBooks plus reference service and librarian assistance for enrolled students.
- **[Math Tutoring Center \(MaRCS\)](#)**: Ask a tutor for help and explore other available math resources.

Individual Resources

- **[Military Student Success Center](#)**: Assists personnel in any branch of service to reach their educational goals.
- **[Center for Accommodations and Support Services](#)**: Assists students with ADA-related accommodations for coursework, housing, and internships.
- **[Counseling and Psychological Services](#)**: Provides a variety of counseling services including individual, couples, and group sessions as well as career and disability assessments.

Tentative Course Schedule

*subject to change with notice

| Week/Dates | Section Title | Due Date | Comments |
|---------------------------------|--|--------------------------------------|---|
| Weeks 1 & 2 Aug 23 – Sep 3 | Introductions 2.1 Counting 2.2 Numerical Patterns in Nature | Friday, Sept 3, 2021 By 11:59 PM | Each section has a location for submission with assignment details. See Blackboard (BB) for details |
| Weeks 3 & 4 Sept 7 – Sept 17 | 2.3 Prime Cuts of Numbers 2.4 Crazy Clocks and Checking Out Bars 2.5 Public Secret Codes and How to Become a Spy 2.6 The Irrational Side of Numbers | Friday, Sept 17, 2021 By 11:59 PM | |
| Weeks 5 & 6 Sept 20 – Oct 1 | 3.1 Beyond Numbers 3.2 Comparing the Infinite 3.3 The Missing Member | Friday, Oct 1, 2021 By 11:59 PM | |
| Week 7 & 8 Oct 4 – Oct 15 | 3.4 Travels Toward the Stratosphere of Infinities 3.5 Straightening Up the Circle 4.1 Pythagoras and His Hypotenuse 4.2 A View of an Art Gallery | Friday, Oct 15, 2021 By 11:59 PM | |
| Week 9 & 10 Oct 18 – Oct 29 | 4.3 The Sexiest Rectangle 4.4 Soothing Symmetry and Spinning Pinwheels 4.5 The Platonic Solids Turn Amorous 4.6 The Shape of Reality | Friday, Oct 29, 2021 By 11:59 PM | |
| Weeks 11 & 12 Nov 1 – Nov 12 | 8.1 Chance Surprises 8.2 Predicting the Future in an Uncertain World 8.3 Random Thoughts | Friday, Nov 12, 2021 By 11:59 PM | |
| Weeks 13 – 15 Nov 15 – Dec 2 | 8.4 Down for the Count 8.5 Drizzling, Defending, and Doctoring M1: Make-up assignment #1 M2: Make-up assignment #2 | Thursday, Dec 2, 2021 By 11:59 PM | Make-up assignment information can be found on Blackboard. |