Syllabus
MATH 1320: Mathematics for Social Sciences

Author: Prof. Charles Mundy-Castle

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Course Instructor
Instructor: C. Mundy-Castle
Contact Information: Email: cmmundy@utep.edu
Text: Via Slack app
Term: Summer 702 2020 (July 6th to August 23rd)
Office Hours: On Slack, MW 9:00-10:00, TR 10:00-11:00

Course Description
This course covers topics of college algebra and geometry including the algebra of sets; linear, quadratic, exponential, and logarithmic functions; systems of linear equations and inequalities; matrix algebra; probability and the mathematics of finance.

Course Overview
Credit Hours: 3
Prerequisite Courses: An adequate score on a placement examination or MATH 0311 or MATH 1305.
Prerequisite Skills and Knowledge:
- Students should have a knowledge of intermediate algebra (as covered in Math 0311 or Math 1305)
- Students should be comfortable with either Microsoft Windows or Mac OS, and have a familiarity with web browsers and navigating the internet in general. Knowledge of Microsoft Excel is useful.
Course Learning Outcomes

Upon completion of this course, you should be able to:

1. Solve linear, quadratic, exponential, and logarithmic functions.
2. Use linear, quadratic, exponential and logarithmic to model real-world scenarios.
4. Use systems of linear equations to model real-world scenarios.
5. Use matrices to solve systems of linear equations.
6. Use models and equations to solve real-world scenarios related to interest, sinking funds and annuities.
7. Use cardinality, combinations, permutations, addition and multiplication principles to count large numbers of outcomes.
8. Define sets and set operations.
9. Calculate probability, including conditional probability, in real-life scenarios.

Course Textbook


Required Materials

- WebAssign.net subscription
- Scientific Calculator (TI-84 is strongly recommended)
- Microsoft Excel

Course Technology

- WebAssign.net
- TI-83 or TI-84 calculator strongly recommended
- Microsoft Excel
- MATH 1320 UTEP website at http://www.math.utep.edu/classes/math1320/

Technology Requirements

- Mozilla Firefox, version 24 or later for Windows, Mac OS X, or Linux
- Internet Explorer, version 10 or later for Windows
- Google Chrome, version 35 or later for Windows or Mac OS X
- Apple Safari, version 6 or later for Mac OS X, iOS 6 or later on iPad

Tech Support

The University of Texas at El Paso offers complete technical information and online help desk support at http://at.utep.edu/techsupport/.
Method of Evaluation

<table>
<thead>
<tr>
<th>Type</th>
<th>Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams (3 @ 10% each)</td>
<td>30%</td>
</tr>
<tr>
<td>Assigned Readings</td>
<td>4%</td>
</tr>
<tr>
<td>Practice Assignments</td>
<td>6%</td>
</tr>
<tr>
<td>Homework</td>
<td>25%</td>
</tr>
<tr>
<td>Muddiest Point Posts</td>
<td>10%</td>
</tr>
<tr>
<td>Final Exam*</td>
<td>25%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
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</tbody>
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*If it benefits your overall average, the lowest exam grade will be replaced by the average of that grade and the final exam grade.

Grading Scale

<table>
<thead>
<tr>
<th>Letter Grade</th>
<th>Percentage Earned</th>
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<tbody>
<tr>
<td>A</td>
<td>90–100%</td>
</tr>
<tr>
<td>B</td>
<td>80–89%</td>
</tr>
<tr>
<td>C</td>
<td>70–79%</td>
</tr>
<tr>
<td>D</td>
<td>60–69%</td>
</tr>
<tr>
<td>F</td>
<td>0–59%</td>
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</tbody>
</table>

Expectations and Policies

What to Expect from the Instructor

I am teaching this course remotely from Albuquerque, NM, so I will not be available for any face-to-face help. Therefore, all communication with me must be through email, messaging on WebAssign, or with Slack. I encourage you to use the Frequently Asked Questions forum on WebAssign, as well as the Ask My Teacher feature whenever you have questions over specific problems. I will do my best to respond to all questions within 24 hours (usually it will be much sooner than that, and very occasionally it may be more than that). I encourage you to download and use the Slack app for faster responses to more immediate questions and concerns. It is basically a texting app where you do not have to give your personal phone number.
Participation
You will be expected to complete all daily activities, practice exams, Muddiest Point posts, and exams according to the schedule. Daily activities are: Assigned Readings, Practice Problems, and Homework. You will be responsible to access WebAssign to review the lessons in the e-text, watch all the videos, tutorials, and PowerPoints given in the daily activities, ask questions about the lessons and submit each assignment on time. Due dates for all activities are available on WebAssign. It is your responsibility to budget your time wisely so that you are prepared for the exams – this means finishing all the daily activities and practice exams before taking the exams. This is a 7-week course, so it will move at a much faster pace than the usual 15-week course. This means that in order to be successful, you should dedicate at least 20 hours per week to complete the weekly assignments.

Academic Dishonesty Statement
Academic dishonesty is prohibited and is considered a violation of the UTEP Handbook of Operating Procedures. It includes, but is not limited to, cheating, plagiarism, and collusion.

- **Cheating** may involve copying from or providing information to another student, possessing unauthorized materials during a test, or falsifying research data on laboratory reports.
- **Plagiarism** occurs when someone intentionally or knowingly represents another person’s words or ideas as his or her own.
- **Collusion** involves unauthorized collaboration with another person or group to commit any academically dishonest act.

Any act of academic dishonesty attempted by a UTEP student is unacceptable and will not be tolerated. Violations will be taken seriously and will be referred to the Office of Student Conduct and Conflict Resolution for possible disciplinary action. Students may be suspended or expelled from UTEP for such actions. You can find more information in the UTEP Handbook of Operating Procedures, under the heading “Alleged Student Scholastic Dishonesty,” and in the Regents’ Rules and Regulations.

Late Policy
Ideally you should complete all assignments before the due dates given on WebAssign. It is understandable that you occasionally may not be able to complete all the assignments on time. Therefore, you may make use of extensions on all assignments except exams. On Assigned Readings and Practice assignments (including practice exams), you may receive one extension per assignment, with no penalty, up to one week after the due date. On Homework assignments, you may request extensions up to one week after the due date, with a 15% penalty on any work completed after the due date. Once you receive the extension, you will have 3 additional days to complete the assignment.

Note that there are absolutely no extensions on exams without a valid, documented excuse that details why you could not take the exam during all of the days it was available. Technical problems are NOT a valid excuse for missing an exam (unless they
affect the entire class). This means that you should always try to take your exam with enough
time to deal with any potential technical issues.

**Progress Expectations**

All work for module 1 must be completed by Sunday, 7/12, or you will be dropped from
the course. After week 1, you will be dropped from the course if you get more than one
week behind schedule.

**Library Information**

Access the UTEP Library by visiting [http://libraryweb.utep.edu/](http://libraryweb.utep.edu/).

**Effective Electronic Communication**

It is important to share a word of caution, so we can become wiser about interpersonal distance
learning communications. In an online environment, many of the feelings or impressions that are
transmitted via body language in face-to-face communications are lost. Consequently,
interpreting emotions and innuendos can be difficult. Only what is written, or drawn, carries the
message. Often, excitement can be misinterpreted as anger or insult. We all need to keep this
in mind as we communicate.

Words in print may seem harmless, but they can emotionally injure us when working at a
distance. Hence, we must be conscious of how we communicate while working at a distance
and use good *netiquette*, that is, online communication etiquette. For example, your classmates
may not know who is posting a comment, so clearly identify yourself when posting to a
discussion board. Furthermore, avoid using all capital letters in electronic communication as all
caps come across as shouting.

The standard netiquette for participation in networked discussion requires that all comments
focus on the topic at hand, without becoming personalized, and be substantive in nature. In
other words, you certainly may disagree with others, but you must do so respectfully. You may
express strong beliefs or emotions, but you may not get so carried away that you lose all
perspective on the course itself.

You can find more information on netiquette, the etiquette of Internet communication,

**Disability Statement**

If you have a disability and need classroom accommodations, please contact The Center for
Accommodations and Support Services (CASS) at 747-5148, or by email to cass@utep.edu, or visit
the office located in UTEP Union East, Room 106.

For additional information, please visit the CASS website at [www.sa.utep.edu/cass](http://www.sa.utep.edu/cass).
Military Statement
If you are a military student with the potential of being called to military service and/or training during the course of the semester, you are encouraged to contact the instructor as soon as possible.

Drop Deadlines
The last day to drop the course without a "W" is Friday, July 10th. The last day to drop the course with a "W" is Friday, August 14th. Students who decide to drop the course must process a drop form, in person, at the Registrar's Office, by August 14th. Please note that the College of Science will remain aligned with the University and will not approve any drop requests after that date.

Incompletes
All grades of Incomplete must be accompanied by an Incomplete Contract that has been signed by the instructor of record, student, departmental chair, and the dean. Although UTEP will allow a maximum of one year to complete this contract, the College of Science requests it be limited to a month based upon completion data. A grade of Incomplete is only used in extraordinary circumstances confined to a limited event such as a missed exam, project, or lab. If the student has missed a significant amount of work (e.g. multiple assignments or tasks), a grade of Incomplete is not appropriate or warranted.

Tutoring
Online tutorials can be found here. The MaRCS Tutoring Center offers free tutoring and is located in the campus library (they are now doing online tutoring – see their website for more details). There are several useful features of WebAssign designed to give extra help.