Department of Mathematics and Statistics  
Math 143.001 – Finite Mathematics  
Spring 2020

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<table>
<thead>
<tr>
<th>Day</th>
<th>Class meeting time and place</th>
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</thead>
<tbody>
<tr>
<td>Monday</td>
<td>11:00-12:00, Math Bldg Room 203</td>
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<tr>
<td>Tuesday</td>
<td>12:30-2:30pm, Math Bldg Room 203</td>
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<tr>
<td>Wednesday</td>
<td>None</td>
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<tr>
<td>Thursday</td>
<td>12:30-2:30pm, Math Bldg Room 203</td>
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<tr>
<td>Friday</td>
<td>None</td>
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Class meeting time and place: Section 1 – MWF 10:00-10:50am – Math Bldg Room 203

Course Description: Mathematical functions and graphs, linear systems of equations, matrices, linear programming, mathematics of finance; applications.

Text and Materials
- The textbook is *Finite Mathematics with Applications in the Management, Natural, and Social Sciences*, 12th Edition, by Lial, et al. Chapters 1 through 7 will be covered in this course.
- Notes will be posted on d2l for each section that we cover. You are responsible for printing them and bringing them to class.
- You will need a calculator for this class. Graphing calculators are allowed but not required; a scientific calculator is sufficient. The calculator function of a cell phone will not be permitted during tests or in-class quizzes.
  - Recommendations: TI-30XS Multiview, TI-30X IIS, or TI-34 Multiview

Course Requirements
- **Three in-class exams**—If a student must miss an exam due to an excused absence, the final exam will replace the missed exam grade. **There are no make-up exams! No cell phone will be allowed on exams.** You will need to bring your own scientific calculator to exams. No additional time will be given on exams. [CO 1, 2, 3]
- **Homework**—We will assign exercises from each major topic in the course calendar/outline through the online homework system MyMathLab. [CO 1, 2, 3]
- **Quizzes**—We will have several quizzes given through the online homework system MyMathLab or during classtime. [CO 1, 2, 3]
- **A comprehensive final exam**—The final exam grade can be used to replace a low or missing exam grade. The scheduled time for the final exam is as follows: Monday, 10:45-1:15, May 4, 2020 [CO 1, 2, 3]
- **Class attendance and participation**—
  - You must make a commitment to attend every class, to arrive on time and to stay the entire time. Bring all necessary materials to each class, be attentive to the task at hand, take notes, and be prepared to participate in class discussions. You must make an additional commitment of doing work outside of class - one to two hours every day. Most importantly, ask for help when you need it.
  - Students are expected to attend all class meetings, arriving on time. If you are absent, you are responsible for determining what you missed and for being prepared for class when you return. Leaving class early without notifying the professor in advance will result in your being counted absent for the class session. Students that sleep in class, send or receive text messages, or conduct other online activities not directly related to class will be counted absent.
  - **Preparing for class**—Students should be prepared to invest several hours per day outside of class reading the text, practicing examples, and working homework exercises. *Material to be discussed in class should be read before coming to class.* Check your university email regularly, as I may send reminders, assignments, or announcements.
Grading Policy
Your final grade will be determined as follows:

- **20%  Daily Average**
  - 90% - 100%  A
- **60%  Tests (3 @ 20% each)**
  - 80% - 90%  B
- **20%  Comprehensive Final Exam**
  - 70% - 80%  C
- **100%  Final Course Grade**
  - 60% - 70%  D
  - 0% - 60%  F

20% of your grade will be determined by your daily average. This will include in-class activities, worksheets, quizzes, homework assignments, etc. **In-class activities, worksheets, and quizzes cannot be made up.**

**Homework assignments will not be accepted late.** However, I will drop one or two of the daily grades at the end of the semester.

Online homework will be due **several times per week!!!**

The following is an excerpt from SFA Policy 5.4:

> The federal definition of a credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that is an institutionally established equivalency that reasonably approximates:

1. Not less than one hour of classroom or direct faculty instruction and a minimum of two hours out-of-class student work each week for approximately fifteen weeks for one semester or trimester hour of credit, or 10 to 12 weeks for one quarter hour of credit, or the equivalent amount of work over a different amount of time, or;
2. At least an equivalent amount of work as outlined in item 1 above for other academic activities as established by the institution including laboratory work, internships, practica, studio work, and other academic work leading to the award of credit hours.

To this end, all students in courses offered by the Department of Mathematics and Statistics that wish to be successful should plan to spend a minimum of two hours outside of class for every credit hour associated with this course. Expected activities to be completed in the time outside of class include reviewing notes from previous class meetings, reading assigned course resources, completing all assigned exercises and projects, and performing periodic assessment preparation.

See [http://www2.sfasu.edu/math/docs/syllabi/MTH143Syllabus.pdf](http://www2.sfasu.edu/math/docs/syllabi/MTH143Syllabus.pdf) for elements common to all sections.

**Additional Help:**
Free tutoring is available from the AARC. The AARC is located in the library on the SFA campus. They offer one-on-one peer tutoring, the Math Walk-in Table, Power Hours, and Learning Teams.

- The hours for the Walk-in Table are 1pm to 8pm Monday through Thursday as well as 3pm to 7pm on Sundays.
- Power hours are TBA.
- Sign-ups for Learning Teams occurs during open enrollment ONLY. The first open enrollment is January 22-23, 11am-6pm.

It is a first-come, first-serve basis so you may want to register early. If you need help signing up, the AARC staff (first floor of library, right-hand side) will be happy to assist. You can find more information on the AARC website, [www.sfasu.edu/aarc](http://www.sfasu.edu/aarc).
| Week 1 | Syllabus/ 
| 1.1 Graphs (Text 2.1) |
| Week 2 | 1.2 Functions/ Graphs of Functions (Text 3.1,3.2) 
| 2.1 First Degree Equations (Text 1.6) |
| Week 3 | 2.2 Equations of Lines/ Linear Models (Text 2.2,2.3) 
| 2.3 Applications of Linear Functions (Text 3.3) 
| 2.4 Systems of Two Linear Equations/Applications (Text 6.1,6.3) |
| Week 4 | Exam 1 Review 
| Exam 1 |
| 2.5 Graphing Linear Inequalities in Two Variables (Text 7.1) |
| Week 5 | 2.5 Linear Programming: Graphical Method/Applications (Text 7.2,7.3) 
| 3.1 Basic Matrix Operations (Text 6.4) |
| Week 6 | 3.1 Matrix Products (Text 6.5) 
| 3.2 Gauss Jordan Elimination (6.2) 
| 3.2 Applications of Systems of Linear Equations (6.3) |
| Week 7 | 3.3 The Simplex Method: Maximization (7.4) 
| 3.3 Maximization Applications (7.5) |
| Week 8 | Exam 2 Review 
| Exam 2 |
| Week 9 | Spring Break!!! 😊 |
| Week 10 | 4.1 Quadratic Equations (Text 1.7) 
| 4.2 Quadratic Functions/Applications (Text 3.4) |
| Week 11 | 5.1, 5.2 Exponential Functions/Applications (Text 4.1,4.2) 
| 5.3 Logarithmic Functions (Text 4.3) |
| Week 12 | 5.4 Logarithmic/Exponential Equations (Text 4.4) |
| Week 13 | Exam 3 Review /Exam 3 |
| Week 14 | 6.1 Simple Interest/Compound Interest/Annuities, Future Value, and Sinking Funds (Text 5.1,5.2,5.3) 
| 6.2 Present Value and Amortization (Text 5.4) |
| Week 15 | 4.1 Quadratic Equations (Text 1.7) 
| 4.2 Quadratic Functions/Applications (Text 3.4) |
| Week 16 | Final Exam: Monday, 10:45-1:15, May 4, 2020 |