MTH 110 Mathematics in Society
Syllabus and Course Policy Sheet
Fall 2017

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936-468-3805 (Math Dept.)

Class meeting time and room:
Section 110.004: MW 1:00 - 2:15, MATH 204
Section 110.006: MW 2:30 - 3:45, MATH 204
Section 110.009: TR 9:30 - 10:45, MATH 212
Section 110.011: TR 12:30 - 1:45, MATH 357

Office Hours: MWF: 9:00 – 10:00 and TTh 9:00-9:30, 1:45 – 2:15

Required Materials
Book: *A Survey of Mathematics with Applications, 9th* Ed. by Angel, Abbott, and Runde
There are two approved versions of the text:

MyMathLab Account: Online homework is done through [www.mymathlab.com](http://www.mymathlab.com).
To create a MML account, students will need:
1. a valid email address (use your SFA email)
2. an access code (bundled with new textbooks, or may be purchased separately online)
3. course id (make sure to use the correct code for your class)
   - MTH 110.004 course id: desha43293
   - MTH 110.006 course id: desha29184
   - MTH 110.009 course id: desha10731
   - MTH 110.011 course id: desha36319

Calculator: You may use a graphing calculator for this course, but you may not use a calculator equivalent to a Ti-89 or higher. A Ti-36X Pro (or equivalent) is recommended.

Attendance Policy and Attendance/Participation Grade
Attendance will be recorded each class day. Students will be marked absent for leaving class early without prior notification. Students will be marked absent if, though physically present, the student refuses to participate in class activities (for example, sleeping, using phone, etc). All students receive two free grace day absences before their attendance grade is affected. Students must provide documentation in order to have an absence excused; however, excused or not, all students are responsible for any material missed.

Tips for a successful math class
- Measure success as understanding and being able to do new problems, not as having completed the assignment. Trying to memorize all the material is not the same as understanding the material. **Do memorize definitions! Flash cards are great.**
- Take the time to read the book and **review your notes** before and after class.
- Practice homework until you can do it without referring to examples or your notes.
- Practice explaining big ideas and problem solving procedures in your own words, using complete sentences.
- Treat mistakes as a learning experience.
- Some people take longer to understand things than others. Evaluate how you study and seek to study smarter, not necessarily longer. If you are still stuck, get some help. The AARC and I are here for you!
- Tutoring: Visit the AARC (on the first floor of the library) to inquire about tutor support for MTH 110. I have asked for a Supplemental Instructor (SI) for this course. I will give you the times and rooms for SI meetings ASAP. Students interested in setting up a weekly appointment with an AARC tutor should visit [http://library.sfasu.edu/aarc/](http://library.sfasu.edu/aarc/) and click on “Weekly Appointments”. Only a small number of tutors are available, so interested students should register as early as possible.
MTH 110 Syllabus

Grading Policy

<table>
<thead>
<tr>
<th>Category</th>
<th>Percentage</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Attendance/Participation</td>
<td>5%</td>
<td>90% - 100% A</td>
</tr>
<tr>
<td>MyMathLab (Homework and Summary Assignments)</td>
<td>15%</td>
<td>80% - 90% B</td>
</tr>
<tr>
<td>Exams (3 at 20% each)</td>
<td>60%</td>
<td>70% - 80% C</td>
</tr>
<tr>
<td>Final Exam (Comprehensive)</td>
<td>20%</td>
<td>60% - 70% D</td>
</tr>
<tr>
<td></td>
<td></td>
<td>&lt; 60% F</td>
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</tbody>
</table>

Exams

- Three exams will be given over the course of the semester (approximate dates listed in calendar). Each exam grade comprises 20% of a student’s overall course grade. A student’s final exam grade will replace their lowest regular exam grade (provided that the final exam grade is higher).
- The final exam for this course will be given as scheduled on the university calendar, in our normal classroom. No alternate arrangements will be allowed.

MyMathLab Homework and Summary & Review Assignments

- Each textbook section covered in the course has a corresponding homework assignment on MyMathLab. Each assignment consists of 10 – 20 questions, and students have three attempts at the correct answer per question. Generally, the due date for all homework assignments will be the following class day at 11:59 PM, but there may be some exceptions to this rule. Check the due dates on MML to be sure.
- In addition to MML homework, there will be five Chapter Summary and Review assignments. The Chapter Summary and Review assignments are intended to serve as a review for the exam. As such, they will not include the various help resources that are available on the normal homework. Note: though different, these Chapter Summary and Review assignments are found under the “Homework” tab on MyMathLab, will become available one week before the exam day, and will be due at 11:59 PM the night before each exam.
- To calculate your overall MyMathLab grade (15% of course grade), first find your average homework grade (drop the 3 lowest grades), and your average summary assignment grade (drop lowest grade), then find the average of those values.

General Policies and Information

- You earn your grade by communicating your understanding of the material through the homework, and tests. Clearly communicating mathematics will be essential in this course.
- I will send e-mails to the entire class during the semester, often through D2L. Make sure you have your personal D2L settings set to forward email notifications. Watch for important class announcements on the D2L newsfeed.
- Students are expected to respect the learning environment of their fellow students. Behavior that disrupts this environment will not be tolerated. Please silence your phone and remove it from the table.

Testing, Grading, and Make-up Policies

- If you miss an exam for any reason, your zero exam grade will be replaced by your final exam grade. If more than one exam is missed, the final exam grade will replace only one of the missed exams.
- You must bring and display either your SFASU Student ID or a valid driver’s license before you will be permitted to take each test and the final exam. I must be able to recognize you from the photo on the ID.
- You may use your (approved) calculator on exams, but you must present it to me so that I may clear the memory, if so equipped.
- Students may not share calculators during an exam. Students may not use cell phone calculators, etc during an exam.
- Since you have a full semester to arrange any travel plans, they are not an excuse for missing the final.
- You may get help on work that is assigned to be done outside of class, unless otherwise instructed, but I expect any work that you turn in to reflect your understanding of the material. On in-class graded work, I expect you to only use your brain, pencil, paper, and, sometimes, a calculator.

Core Objectives (CO):

1. Critical Thinking [CO 1]: to include creative thinking, innovation, inquiry, and analysis, evaluation and synthesis of information
2. Communication Skills [CO 2]: to include effective development, interpretation and expression of ideas through written, oral and visual communication
3. Empirical and Quantitative Skills [CO 3]: to include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions
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**Student Learning Outcomes (SLO):** At the end of MTH 110, a student who has studied and learned the material should be able to:

1. Demonstrate understanding of elementary logic in order to make persuasive arguments, understand conflicting reports, identify faulty reasoning, detect bias, assess risk, suggest alternatives, and draw solid conclusions. [CO: 1,2,3]
2. Use sets as a tool for organizing information, recognize that relationships between and among sets provide the foundation for many valid arguments. [CO: 1,2,3]
3. Use counting techniques, estimation, proportional reasoning, percents, and unit conversions to more ably interpret numerical quantities that occur in everyday life. [CO: 1,2,3]
4. Demonstrate understanding of basic probability and how it is involved in virtually every decision we make – either explicitly or implicitly. [CO: 1,2,3]
5. Use statistics to critically evaluate and interpret statistical studies and corresponding reports. [CO: 1,2,3]
6. Use functions to model various relationships with enough precision to gain insight into how things work and to make reasonable predictions about the future. [CO: 1,2,3]

**University Policies**

**Academic Integrity (Policy A-9.1)**

Academic integrity is a responsibility of all university faculty and students. Faculty members promote academic integrity in multiple ways including instruction on the components of academic honesty, as well as abiding by university policy on penalties for cheating and plagiarism.

The penalty for a student found cheating on any part of an assignment, quiz, or exam in this class will range from a grade of zero on the work to a grade of F in the course, and may result in additional, more severe disciplinary measures. A student who allows another to copy his work and the student copying the work are both guilty of cheating. Do your own work. Do not show your completed work to others. Do not allow others to copy your work.

**Definition of Academic Dishonesty**

Academic dishonesty includes both cheating and plagiarism. Cheating includes but is not limited to (1) using or attempting to use unauthorized materials to aid in achieving a better grade on a component of a class; (2) the falsification or invention of any information, including citations, on an assigned exercise; and/or (3) helping or attempting to help another in an act of cheating or plagiarism. Plagiarism is presenting the words or ideas of another person as if they were your own. Examples of plagiarism are (1) submitting an assignment as if it were one’s own work when, in fact, it is at least partly the work of another; (2) submitting a work that has been purchased or otherwise obtained from an Internet source or another source; and (3) incorporating the words or ideas of an author into one’s paper without giving the author due credit.

Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp).

**Withheld Grades Semester Grades Policy (A-54)**

Ordinarily, at the discretion of the instructor of record and with the approval of the academic chair/director, a grade of WH will be assigned only if the student cannot complete the course work because of unavoidable circumstances. Students must complete the work within one calendar year from the end of the semester in which they receive a WH, or the grade automatically becomes an F. If students register for the same course in future terms the WH will automatically become an F and will be counted as a repeated course for the purpose of computing the grade point average. The circumstances precipitating the request must have occurred after the last day in which a student could withdraw from a course. Students requesting a WH must be passing the course with a minimum projected grade of C.

**Students with Disabilities**

To obtain disability related accommodations, alternate formats and/or auxiliary aids, students with disabilities must contact the Office of Disability Services (ODS), Human Services Building, and Room 325, 468-3004 / 468-1004 (TDD) as early as possible in the semester. Once verified, ODS will notify the course instructor and outline the accommodation and/or auxiliary aids to be provided. Failure to request services in a timely manner may delay your accommodations. For additional information, go to [http://www.sfasu.edu/disabilityservices](http://www.sfasu.edu/disabilityservices).

**Acceptable Student Behavior**

Classroom behavior should not interfere with the instructor’s ability to conduct the class or the ability of other students to learn from the instructional program (see the Student Conduct Code, policy D-34.1 [http://www.sfasu.edu/policies/student_conduct_code.asp](http://www.sfasu.edu/policies/student_conduct_code.asp)). Unacceptable or disruptive behavior will not be tolerated. Students who disrupt the learning environment may be asked to leave class and may be subject to judicial, academic or other penalties. This prohibition applies to all instructional forums, including electronic, classroom, labs, discussion groups, field trips, etc. The instructor shall have full discretion over what behavior is appropriate/inappropriate in the classroom. Students who do not attend class regularly or who perform poorly on class projects/exams may be referred to the Early Alert Program. This program provides students with recommendations for resources or other assistance that is available to help SFA students succeed.
<table>
<thead>
<tr>
<th>Week of:</th>
<th>Monday/Tuesday</th>
<th>Wednesday/Thursday</th>
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| 8/28    | Course Introduction  
2.1 Sets | 2.2 Subsets  
2.3 Venn Diagrams |
| 9/4     | 2.4 Set Equality  
2.5 Applications of Sets | 3.1 Statements and Logical Connectives  
3.2 Truth Tables I |
| 9/11    | 3.3 Truth Tables II  
3.4 Equivalent Statements | 3.5 Symbolic Arguments  
3.6 Euler Diagrams/Syllogistic Arguments |
| 9/18    | Review/Extra Instruction | Exam I (Ch 2 and 3) |
| 9/25    | 11.1 Percent  
11.2 Personal Loans and Simple Interest | 11.2 (cont.)  
11.3 Compound Interest |
| 10/2    | 11.4 Installment Buying | 11.4 (cont.) |
| 10/9    | 11.5 Mortgages | 11.6 Annuities and Sinking Funds |
| 10/16   | Review/Extra Instruction | Exam 2 (Ch 11) |
| 10/23   | 12.1 The Nature of Probability  
12.2 Theoretical Probability | 12.4 Expected Value  
12.5 Tree Diagrams |
| 10/30   | 12.6 OR and AND Probability  
12.7 Conditional Probability | 12.8 The Counting Principle  
12.9 Combinations |
| 11/6    | 12.10 Probability and Combinations  
Review | Exam 3 (Ch 12) |
| 11/13   | 13.3 Frequency Distributions and Graphs  
13.4 Measures of Central Tendency | 13.5 Dispersion Statistics |
| 11/20   | Holiday | Holiday |
| 11/27   | 13.6 The Normal Curve | 13.6 (cont.) |
| 12/4    | 1.3 Problem Solving | Review/Extra Instruction |
| 12/11   | MTH 110.004 Final Exam: Monday, December 11 at 1:00 - 3:00  
MTH 110.006 Final Exam: Friday, December 15 at 10:30 - 12:30  
MTH 110.009 Final Exam: Tuesday, December 12 at 8:00 - 10:00  
MTH 110.011 Final Exam: Tuesday, December 12 at 10:30 - 12:30 | Finals Week |

**NOTE:** The section numbers in the above schedule correspond to the 9th edition of the textbook. The SFA custom edition was mistakenly taken from the 10th edition. The section titles are all the same, only the chapter and section numbers have changed on some sections. See the “MTH 110 Hardcover to Softcover Translator” file under the Course Information module on D2L for more details.