Instructor: Cheryl Janusa  
Office: Math building room 329  
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Office Phone: (936) 468-1742

Office Hours: These hours have been set aside specifically to serve students. Additional times are available by appointment:  
Monday: 10 – 11 am and 1:30 – 2:30 pm  
Wednesday: 10 – 11 am and 1:30 – 2:30 pm  
Friday: 10 – 11 am

Class meeting times and room:  
Section .035 2:30 – 3:45 MW and 2:00 – 3:15 pm TR, Math building room 214

Course Description:  
Mathematics in Society provides an introduction to mathematical thinking emphasizing analysis of information for decision-making. (MATH 1332) Prerequisite(s): MTH 099 or TSI complete/exempt status in mathematics.

Text and Materials:  
Textbook: A Survey of Mathematics with Applications Custom Package for Stephen F Austin State University (custom edition from 10th ed.) w/ MyLab Math,  
You may choose either version  
- Custom SFASU 10th edition (bundled with MyLab Math (MLM), Access), purchase at local bookstores, $137  
- eBook (bundled with MyLab Math Access),

Calculator: The recommended scientific calculator is TI-30XS Multiview (retails for under $20), or the TI-36. Calculators on cell phones, computers or tablets are not permitted.

Additional suggested supplies: 100 - 150 sheet note book designated for this course or binder with paper and pencils

Grading Policy: Your final grade will be determined as follows:

| Course Grade | 90% - 100% | A  
|---------------|------------|---
| 20% Assignments –MyLab Math (MLM), Homework and Class Assignments | 80% - 89.5% | B  
| 60% Exams (3 in-class exams worth 20% each) | 70% - 79.5% | C  
| 20% Final Exam (Comprehensive and required) | 60% - 69.5% | D  
| 100% Final Course Grade | 0% - 59.5% | F  

- Assignments include online MyLab Math (MLM), homework, D2L assignments, in-class quizzes and activities.
- Exams are scheduled far in advance and only administered at the scheduled time. A student will be allowed to take the exam prior to the scheduled time for one of the following reasons:  
  - A medical excuse or extreme hardship such as a family emergency. The student must provide proper documentation and properly contact the Office of Students Rights and Responsibilities as stated in the SFA attendance policy, http://www.sfasu.edu/policies/class-attendance-6.7.pdf  
  - Student participation in approved university-sponsored events. Faculty members sponsoring activities that require their students to be absent from other classes must submit proper notification to the provost and vice president for academic affairs for all attending students.
- The final exam is comprehensive and mandatory. The final exam is scheduled by the university and cannot be taken at a different time without permission of the Dean of the College of
Sciences and Mathematics. The final exam grade will replace the lowest exam grade provided that the final exam grade is greater than the lowest exam grade. If a student misses an exam, there are no make-up exams. If you miss an exam, your final exam grade will be substituted for the missing exam grade.

- **Testing Policies**
  - If you miss an exam for any reason, your final exam grade will replace your missed 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. The calculator memory must be cleared prior to taking the exam.
  - Students may not share calculators during an exam. Students may not use cell phone calculators, computers, or other non-approved devices during an exam.

**Attendance Policy**: Regular attendance is expected and necessary for your success. The SFA attendance policy is available at the following link: [www.sfasu.edu/policies/class-attendance-6.7.pdf](http://www.sfasu.edu/policies/class-attendance-6.7.pdf). Attendance will not be formally factored into your course grade, but missing in-class activities, quizzes, etc, could lower your assignment grade.

**Additional Help**:
- Visit the instructor during office hours (see above) and email.
- Free tutoring is available from the Academic Assistance and Resource Center (AARC). For more information, visit the AARC website at [www.sfasu.edu/aarc](http://www.sfasu.edu/aarc).

**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.
- Any questions you have will likely be ones that other students want answered as well, so do not hesitate to ask questions as the material is presented. The purpose of attending class is for you to learn the material, not just a time for you to copy notes. Participating and being involved in class will help you be successful.
- **Cell Phones**: Your cell phone should be on silent and out of sight in class. Along with cell phones, the use of any laptop or tablet is also prohibited in class. If there is ever an issue that might cause your cell phone to ring or for you to need to be reached, please discuss this with me beforehand. Research shows that human brains cannot multitask complex, abstract information with cell phone usage, so this policy is designed for your benefit.
- Students are expected to respect the learning environment of their fellow students. Behavior that disrupts this environment will not be tolerated.
- 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. Most importantly, ask for help when you need it.
- I may send e-mails to the entire class during the semester. You should check your email daily during the week. Resources and announcement for the course will be available in D2L.
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<th>Week of . . .</th>
<th>Topic</th>
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| Aug 26 - 30 | Course Introduction  
2.1 Sets  
2.2 Subsets |
| Sep 2 - 6   | 2.3 Venn Diagrams  
2.4 Set Equality  
2.5 Application of Sets |
| Sep 9 - 13  | 3.1 Statements and Logical Connectives  
3.2 Truth Tables I  
3.3 Truth Tables II  
3.4 Equivalent Statements |
| Sep 16 - 20 | 3.5 Symbolic Arguments  
3.6 Euler Diagrams/Syllogistic Arguments  
Review |
| Sep 23 - 27 | Review  
**Exam 1**: Chapters 2 and 3  
1.3 Problem Solving  
10.1 Percent |
| Sep 30 – Oct 4 | 10.2 Personal Loans and Simple Interest  
10.3 Compound Interest  
10.4 Installment Buying |
| Oct 7 - 11  | 10.5 Mortgages  
10.6 Annuities and Sinking Funds |
| Oct 14 - 18 | Review  
**Exam 2**: Chapter 10 |
| Oct 21 - 25 | 11.1 Empirical and Theoretical Probability  
11.3 Expected Value  
11.4 Tree Diagrams |
| Oct 28 – Nov 1 | 11.5 OR and AND Probability  
11.6 Conditional Probability  
11.7 Counting Principle/Permutations |
| Nov 4 - 8   | 11.8 Combinations  
11.9 Probability and Combinations |
| Nov 11 - 15 | Review  
**Exam 3**: Chapter 11  
12.1 Sampling and Misuses of Statistics  
12.2 Frequency Distribution and Graphs |
| Nov 18 - 22 | 12.3 Measures of Central Tendency  
12.4 Measures of Dispersion  
12.5 The Normal Curve |
| Nov 25 - 29 | Thanksgiving holiday |
| Dec 2 - 6   | 12.5 The Normal Curve (continued)  
Review for final |
| Dec 9 - 13  | **FINAL EXAM**, comprehensive and mandatory  
Section .003 Monday, December 9; 10:45 am – 1:15pm  
Section .035 Thursday, December 12; 1:30 – 4 pm |
MyLab Math (MLM) Homework

- Each textbook section covered in the course has a corresponding homework assignment on MyMathLab. Each assignment consists of approximately 20 questions. Students will have up to three attempts to answer each question correctly. Be careful, multiple-choice questions having only two choices may have only 1 attempt.

To create a MLM account, students will need:
1. a valid SFA email address
2. an access code (bundled with new textbooks, or may be purchased separately online with a credit card at time of registration)

To access MyLab Math:
- log in to D2L/Brightspace
- Scroll down to My Courses and select MTH110
- In the D2L course, scroll down to the icon located on the right,
  and click-on ‘Pearson MyLab and Mastering’
- Now you will see a picture of the book. Just to the right of the book, click on the orange button, Open MyLab & Mastering.
- Follow the directions to enroll in MyLab Math

NOTE: You will need to allow pop-ups. When prompted, select to permanently allow pop-ups from Pearson.

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/MTH110Syllabus.pdf for elements common to all sections