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.

Class meeting times and room:
Section .001: 10:00 – 10:50 am MWF, Bush Math building room 357
Section .002: 11:00 – 11:50 am MWF, Bush Math building room 212

Instructor: Cheryl Janusa
Office: Bush Math building room 329
Office Phone: (936) 468-1742
Email: janusace@sfasu.edu
Office Hours: These hours have been set aside specifically to serve students:
Monday and Wednesday: 2:30 – 3:30 pm
Tuesday and Thursday: 11:00 – 11:30 am and 2:00 – 3:00 pm
Additional times are available by appointment.

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 purchased through MyLabMath.com
MyLab Math Account: Online homework is done through MyLabMath.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 purchased separately online) 3. course id (make sure to use the correct code for your class)
   Section .001: janusa89502  Section .002: janusa77185

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

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 or binder with paper, and pencils

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

<table>
<thead>
<tr>
<th>Course Grade</th>
<th>90% - 100%</th>
<th>A</th>
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<tbody>
<tr>
<td>20% Assignments –MyLab Math (MLM), and Class Assignments</td>
<td>80% - 89.5%</td>
<td>B</td>
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<tr>
<td>60% Exams (3 in-class exams worth 20% each)</td>
<td>70% - 79.5%</td>
<td>C</td>
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<tr>
<td>20% Final Exam (Comprehensive and required)</td>
<td>60% - 69.5%</td>
<td>D</td>
</tr>
<tr>
<td>100% Final Course Grade</td>
<td>0% - 59.5%</td>
<td>F</td>
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- 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:
  o 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 of 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 an exam is missed, 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 being permitted to take each test and the final exam. The ID must display a clear facial picture of the student.
  - You may use your 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. Attendance will not be formally factored into your course grade, but missing in-class activities, quizzes, etc, could lower your assignment grade. If you must be absent from class, submit a notification of absence through the Office of Community Standards, http://www.sfasu.edu/judicial/ to be excused from class and all in-class quizzes and activities for the dates on the notification. The direct link for the absence notification is https://cm.maxient.com/reportingform.php?SFAStateUniv&layout_id=5. Note: an absence notification does not excuse a student from an exam or online homework assignments.

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.

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. 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.
- Resources and announcement for the course will be available in D2L.
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](http://www2.sfasu.edu/math/docs/syllabi/MTH110Syllabus.pdf) for elements common to all sections.
<table>
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<th>Week of . . .</th>
<th>Topic</th>
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| Jan 15 - 17  | Course Introduction  
10.1 Percent   |
| Jan 20 - 24  | Holiday  
10.2 Personal Loans and Simple Interest  
10.3 Compound Interest |
| Jan 27 - 31  | 10.4 Installment Buying  
10.5 Mortgages  
10.6 Annuities and Sinking Funds |
| Feb 3 - 7    | Catch-up  
Review  
**Exam 1:** Chapter 1 |
| Feb 10 - 14  | 11.1 Empirical and Theoretical Probability  
11.3 Expected Value  
11.4 Tree Diagrams |
| Feb 17 - 21  | 11.5 OR and AND Probability  
11.6 Conditional Probability  
11.7 Counting Principle/Permutations |
| Feb 24 - 28  | 11.8 Combinations  
11.9 Probability and Combinations  
Catch-up/ Practice |
| Mar 2 - 6    | Review  
**Exam 2:** Chapter 11 (exam may be on Friday, March 6) |
| Mar 9 - 13   | **Spring Break** |
| Mar 16 - 20  | 2.1 Sets  
2.2 Subsets  
2.3 Venn Diagrams |
| Mar 23 - 27  | 2.4 Set Equality  
2.5 Application of Sets  
3.1 Statements and Logical Connectives |
| Mar 30 – Apr 3| 3.2 Truth Tables I  
3.3 Truth Tables II  
3.4 Equivalent Statements Review |
| Apr 6 - 10   | 3.5 Symbolic Arguments  
3.6 Euler Diagrams/Syllogistic Arguments  
Holiday |
| Apr 13 - 17  | Review  
**Exam 3: Chapters 2 and 3**  
12.1 Sampling and Misuses of Statistics  
12.2 Frequency Distribution and Graphs |
| Apr 20 - 24  | 12.3 Measures of Central Tendency  
12.4 Measures of Dispersion |
| Apr 27 – May 1| 12.5 The Normal Curve  
Review for final |
| May 4 - 8    | **FINAL EXAM,** comprehensive and mandatory  
Section .001 Monday, May 4: 10:45 am – 1:15 pm  
Section .002 Wednesday, May 6: 10:45 am – 1:15 pm |