Department of Mathematics and Statistics
MTH 1332: Mathematics in Society
FALL 2020

Course Description: Mathematics in Society provides an introduction to mathematical thinking emphasizing analysis of information for decision-making. (MATH 1332)
Prerequisite(s): MTH 0199 or TSI complete/exempt status in mathematics.

Class meeting times, (scheduled meeting room), Link for Live-stream Zoom meeting:
Section .006: 2:30 – 3:45 pm MW, (Bush Math building room 357) Class will meet live-stream:
Link for Live-stream Zoom meeting is available in the Brightspace/D2L.

Section .007: 9:30 – 10:45 am TR, (Bush Math building room 127) Class will meet live-stream:
Link for Live-stream Zoom meeting is available in Brightspace by D2L.

Instructor: Cheryl Janusa
Office: Bush Math building room 329. Office hours are through Zoom or by appointment.
Email: janusace@sfasu.edu Office Phone: (936) 468-1742

Office Hours: These hours have been set aside specifically to serve students through Zoom - Live Stream. Office hours online through Zoom meeting room: https://sfasu.zoom.us/my/janusace
Monday and Wednesday: 1:00 – 2:30 pm
Tuesday and Thursday: 12:00 – 12:30 pm and 3:30 – 4:00 pm
Additional times are available by appointment. To meet in person, an appointment is required and location will be determined at that time.

COVID-19 MASK POLICY Masks (cloth face coverings) must be worn over the nose and mouth at all times in buildings and appropriate physical distancing must be observed. Students not wearing a mask and/or not observing appropriate physical distancing will be asked to leave the building. All incidents of not wearing a mask and/or not observing appropriate physical distancing will be reported to the Office of Student Rights and Responsibilities. Students who are reported for multiple infractions of not wearing a mask and/or not observing appropriate physical distancing may be subject to disciplinary actions.

Text and Materials:
Textbook: Math in Society by David Lippman, available online (free)
http://www.opentextbookstore.com/mathinsociety/
Note: You may purchase a paperback copy for $15 through Amazon but this is not required.

Homework system: https://support.knewton.com/en/articles/2273849-what-is-the-cost-of-knewton-s-alta
1. You will purchase an Access Code from the bookstore or pay for plan through Knewton. Knewton costs $39.95 per semester. Knewton offers a 14-day Courtesy Access.
2. When you open the first homework assignment in Brightspace by D2L, you will be asked to sign in. Choose “sign-in”, then “create a new account” and follow directions. Be sure to use your SFA email address.

Calculator: A scientific calculator that has the functions of fractions and exponents is required for the course. The recommended scientific calculator is TI-30XS Multiview (retails for under $20). or the TI-36.
**Grading Policy:** Your final grade will be determined as follows:

<table>
<thead>
<tr>
<th>Course Grade</th>
<th>90% - 100%</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>20% Assignments – Knewton homework and other Assignments</td>
<td>80% - 89.5%</td>
<td>B</td>
</tr>
<tr>
<td>60% Exams (4 Topic exams worth 15% each)</td>
<td>70% - 79.5%</td>
<td>C</td>
</tr>
<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>
</tr>
</tbody>
</table>

- **Assignments** include online Knewton online homework (access through D2L) and other assignments within D2L.
- **Exams** are scheduled far in advance so mark your calendar. 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 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](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.
  - Exams will be online.
  - You may use your calculator on exams.

**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). You may notify all your professors using the following link for the absence notification [https://cm.maxient.com/reportingform.php?SFAStateUniv&layout_id=5](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](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.
- You are expected to attend class. This is unusual times so I will record the live-stream class. Students will have the option to view the recorded video posted in D2L.
- There will be a weekly survey in D2L to be completed by the student. This will record class participation in the course. It is important for each student to complete the survey weekly for attendance.
- There will be a Star Bonus worth up to 5 points on the 4 “class” exams (not the final exam). Students will earn Stars by completing the weekly survey in D2L, completing assignments with a grade of more than 70%
before the due date, and class assignments or activities. Students who earn at least 90% of the stars available will earn 5 points added to their exam grade. Students who earn at least 80% of the stars available will earn 4 points added to their exam grade. Students who earn at least 70% of the stars available will earn 3 points added to their exam grade.

- 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 posted 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
## MATH 1332 Tentative course schedule

<table>
<thead>
<tr>
<th>Week of . . .</th>
<th>Topic and textbook reference for the topic</th>
<th>Homework</th>
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</thead>
<tbody>
<tr>
<td>Aug 24 - 28</td>
<td>Course Introduction, <strong>Sets</strong> pp 319 – 320; Subsets p 320; Venn Diagrams pp 321 – 323</td>
<td>1, 2, 3</td>
</tr>
<tr>
<td>Aug 31 – Sep 4</td>
<td>Set Operations pp 321 – 322, Venn Diagrams of 3 Sets pp 324 – 325; Verification of Set Equality, DeMorgan’s Law, Surveys pp 325 - 328</td>
<td>4, 5, 6</td>
</tr>
<tr>
<td>Sep 7 - 11</td>
<td><strong>Catch up/ Review; Exam 1 Sets</strong></td>
<td>Review, Practice</td>
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<tr>
<td>Sep 14 – 18</td>
<td><strong>Logic</strong> – Statements and Connectives pp 407 – 412, Truth Tables – Not, And, Or pp 413 – 417; Truth Tables – Conditional and Biconditional pp 417 – 425</td>
<td>7, 8, 9</td>
</tr>
<tr>
<td>Sep 28 – Oct 2</td>
<td><strong>Catch up/ Review; Exam 2 Logic</strong></td>
<td>Review, Practice</td>
</tr>
<tr>
<td>Oct 5 - 9</td>
<td><strong>Consumer Mathematics</strong>: Percent, Tax and Simple Interest pp 197 – 198; Compound Interest pp 199 – 204,</td>
<td>13, 14, 15</td>
</tr>
<tr>
<td>Oct 12 - 16</td>
<td>Annuities and Stocks pp 204 – 211; Mortgage and Loans pp 211 – 219; Credit Cards</td>
<td>16, 17, 18, 19</td>
</tr>
<tr>
<td>Oct 19 – Oct 23</td>
<td><strong>Catch up/ Review; Exam 3 Consumer Mathematics</strong></td>
<td>Review, Practice</td>
</tr>
<tr>
<td>Nov 2 - 6</td>
<td>Sample Space p 279-280, Expected Value, Independent and Dependent Events (OR, AND) and CONDITIONAL statements pp 282 – 289;</td>
<td>24, 25, 26</td>
</tr>
<tr>
<td>Nov 9 - 13</td>
<td><strong>Catch up/ Review; Exam 4 Probability</strong></td>
<td>Review, Practice</td>
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<tr>
<td>Nov 23 - 27</td>
<td><strong>Thanksgiving Holiday</strong></td>
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<tr>
<td>Dec 7 - 11</td>
<td><strong>FINAL EXAM, comprehensive and mandatory</strong> Section .006 Friday, December 11, 10:45 am – 1:15 pm Section .007 Tuesday, December 8, 8 am – 10:30 am</td>
<td></td>
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