**Instructor**: John Sullivan  
**Email**: sullivanjb1@sfasu.edu

**Office Location**: MATH 345  
**Phone**: 936-468-1547 (office)  
936-468-3805 (Math Dept.)

**Class meeting times and rooms:**
Section .030: MW: 2:30 – 3:45 PM, MATH 208, TR: 2:00 – 3:15 PM, MATH 208  
Section .031: MWF: 9:00 – 9:50 AM, MATH 208, TR: 9:30 – 10:45 AM, MATH 208  
Section .034: MW: 1:00 – 2:15 PM, MATH 208, TR: 12:30 – 1:45 PM, MATH 208

**Office Hours**: MW: 10:00 AM – 11:30 AM  
TR: 3:15 PM – 4:15 PM

**Required Materials**

**Book**: *A Survey of Mathematics with Applications, 10th* Ed. by Angel, Abbott, and Runde  
There are two approved versions of the text:
- Custom SFASU (bundled with MyMathLab Access): Purchase at local bookstores, $137  
- eBook (bundled with MyMathLabAccess): Purchase Online, $104

**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)  
   - Section .030: sullivan37452  
   - Section .031: sullivan49205  
   - Section .034: sullivan50037

**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-30XS Multiview** is recommended (retails for under $20)

**Remind App**: Optionally, we can communicate through text with the Remind app. Text the message below to 81010 to be added to the course.  
Section .030: text “@mth100cs”  
Section .031: text “@mth110cse”  
Section .034: text “@mth110csec”

**Tutoring**

- There are multiple options for getting help outside of class. You have already paid for these resources with your tuition money, so take advantage of them!
  1. Instructor office hours (see above) and text/email
  2. “Co-Req Corner”: Room 305 is reserved exclusively for students enrolled in Co-requisite courses like ours. The tutors are all graduate students who have experience with the course material. The times that tutoring is available will be posted the first week of class.
3. The Academic Assistance Resource Center (AARC) in the Steen Library offers both walk-in tutoring (no appointment needed) and targeted, small-group Learning Teams.

   a. Special MTH 110 hours at the Walk-In Tables: Our undergraduate tutors Bekah, Avery, and Ashton will be holding walk-in tutoring sessions on Monday through Thursday each week.
      - Monday: 1 - 2 pm
      - Tuesday: 4 - 6 pm
      - Wednesday: 4 - 5 pm
      - Thursday: 1 – 2 pm

   b. A Learning Team is a group of 6-8 students from the same course who are coached by a peer tutor (a fellow student who has completed the course successfully). These are student-led groups, so the students choose the topics covered. The AARC will create these teams based on availability of tutors and student interest. If you’d like to be a part of a Learning Team, you must visit the AARC during an open enrollment period. For the Fall 2019 semester, the first open enrollment dates are: Wed/Thur August 28/29: 11:00 AM – 6:00 PM

### Grading Policy

<table>
<thead>
<tr>
<th>Grade</th>
<th>Course Grade</th>
<th>Daily Grade (quizzes and other assignments)</th>
<th>MyMathLab (Homework and Summary Assignments)</th>
<th>Exams (3 at 20% each)</th>
<th>Final Exam (Comprehensive)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>90% - 100%</td>
<td>10%</td>
<td>10%</td>
<td>60%</td>
<td>20%</td>
</tr>
<tr>
<td>B</td>
<td>80% - 90%</td>
<td>10%</td>
<td>MyMathLab (Homework and Summary Assignments)</td>
<td>70% - 80%</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>60% - 70%</td>
<td>20%</td>
<td>Exams (3 at 20% each)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>&lt; 60%</td>
<td>60%</td>
<td>MyMathLab (Homework and Summary Assignments)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### How Your Course Grade Will Be Computed

**Daily Grade**
- Your daily grade will come from several different sources: quizzes, mini-projects, your study plan, and other assignments. At the end of the semester, I will drop the lowest 10% of your daily grades, and average the remaining to calculate your overall Daily Grade (10% of your overall course grade). I will update your daily average weekly on D2L to help you keep track of your grade.

**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 (usually) have three attempts at the correct answer per question. Generally, the due date for all homework assignments covered in a particular week will be **Monday of the following week, at 11:59 PM, but there are some exceptions to this rule.** Check the calendar on MyMathLab frequently for due dates.

- 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 (10% of course grade), first find your average homework grade (drop the 4 lowest grades), and your average summary assignment grade (drop lowest grade), then find the average of those values.

**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). However, your final exam grade can only replace one regular exam; if, for example, a student misses two regular exams, one of the scores will be an irreplaceable zero.

- Exam procedure: during exams, you may not (1) share calculators, (2) use your own scratch paper (I will provide scratch paper for you), (3) use your phone or other device, (4) use headphones or earbuds (foam earplugs are ok), or (5) use any unapproved notes or formula sheets.

- 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.

**Study Plan**

- Co-requisite classes such as ours offer a great reward for the successful student (completion of your credit-level math requirement in a single semester), but carry a great risk as well (a failing grade counts against your GPA, increased tuition cost, etc). Because of this risk, and because I sincerely want each of you to be successful, I will be monitoring your progress over the course of the semester much more closely than is typical in lower-level undergraduate courses.

- Each student will have an individual Study Plan throughout the semester. A grade will be assigned each week (100 or 0) based on whether the student successfully completed their study plan for that week. This grade will be included in the Daily Grades category, along with in-class quizzes and other assignments

  1. Initially, each student’s Study Plan will consist of **2 hours of mandatory, outside-of-class tutoring**. This requirement can be satisfied by coming to my office hours, visiting the grad student tutors in the Co-Req Corner, or by visiting the tutors in the AARC. The student is responsible for obtaining verification of their hours (slips, sign-in sheets, etc). Slips can be given to me in class, or you may text/email a photo. The deadline will be on Fridays at 5 pm.

  2. I will then periodically reevaluate the student’s progress in the class, and modify the student’s Study Plan as needed. For example, if a student does exceptionally well on an exam, I may remove the mandatory study hours requirement altogether. On the other hand, if a student is struggling, I may increase the number of study hours, or implement an alternate strategy. The point is to try and customize each Study Plan for the individual student to increase his/her chances of success.
MTH 110C Syllabus Sullivan 191

- Admittedly, this process is a greater imposition on your time than in a normal class, but ours is not a normal class. Your Study Plan can help you succeed, but remember that it requires your participation. Come to office hours. Email me your questions. Visit with the GTAs. Meet the undergraduate tutors. As much as all of us wish for your success, it is only possible if YOU TAKE OWNERSHIP of your learning!

**General Policies and Information**

- When you enter the classroom, please remove your notebook, pencils, calculator, etc from your bag, then place your bag (including your silenced phone) on the floor. Our goal is zero distractions during lecture.

- We will sometimes work in groups, which can be a noisy affair. Please keep in mind the other groups (and other classrooms) and keep your talking to a reasonable volume.

- I want to create a relaxed classroom environment, where students feel comfortable asking questions. You should always feel free to stop me during lecture to ask for clarification on some concept that is confusing you; there are no dumb questions. Students who disrespect or belittle their classmates will be asked to leave.

- To communicate with students, either individually or as a group, I may use the Remind app, email, or the News feature on the course D2L page. Make sure you have configured your personal D2L settings so you receive these notifications (you can configure to D2L to send you a text message whenever I post a news item, post an exam grade, etc)

**University Policies**

For further information on the standard university policies below, consult the common syllabus for MTH 110, which can be found at [http://www2.sfasu.edu/math/docs/syllabi/MTH110Syllabus.pdf](http://www2.sfasu.edu/math/docs/syllabi/MTH110Syllabus.pdf)

- Withheld Grades  *Semester Grades Policy (A-54)*
- Students with disabilities
- Acceptable Student Behavior
- Academic Integrity (Policy A-9.1)

**Definition of Credit Hour (Policy 5.4)**

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.

### Tentative Course Schedule (MTH 110C 191)

<table>
<thead>
<tr>
<th>Week of . . .</th>
<th>Topics Covered</th>
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</thead>
</table>
| 8/26 – 8/30  | Course Introduction  
2.1 Sets  
2.2 Subsets  
2.3 Venn Diagrams |
| 9/2 – 9/6    | 2.4 Set Equality  
2.5 Applications of Sets  
3.1 Statements and Logical Connectives  
3.2 Truth Tables I |
| 9/9 – 9/13   | 3.3 Truth Tables II  
3.4 Equivalent Statements  
3.5 Symbolic Arguments  
3.6 Euler Diagrams/Syllogistic Arguments |
| 9/16 – 9/20  | 3.6 (cont.) Review/Extra Instruction  
Exam I (Ch 2 and 3) |
| 9/23 – 9/27  | 10.1 Percent  
10.2 Personal Loans and Simple Interest  
10.2 (cont.)  
10.3 Compound Interest  
10.4 (cont.) |
| 9/30 – 10/4  | 10.4 Installment Buying  
10.6 Annuities and Sinking Funds |
| 10/7 – 10/11 | 10.5 Mortgages  
Review/Extra Instruction  
Exam 2 (Ch 10) |
| 10/14 – 10/18| 11.1 Empirical and Theoretical Probability  
11.2 Probability and Combinations  
11.3 Expected Value  
11.4 Tree Diagrams  
11.6 (cont.)  
11.7 The Counting Principle/Permutations |
| 10/21 – 10/25| 11.5 OR and AND Probability  
11.6 Conditional Probability  
12.1 Sampling and Misuses of Statistics  
12.2 Frequency Distributions and Graphs |
| 10/28 – 11/1 | 11.8 Combinations  
11.9 Probability and Combinations  
12.3 Measures of Central Tendency  
12.4 Measures of Dispersion  
12.5 The Normal Curve  
12.6 (cont.)  
12.7 The Counting Principle/Permutations |
| 11/4 – 11/8  | 12.3 Measures of Central Tendency  
12.4 Measures of Dispersion  
Review/Extra Instruction  
Exam III (Ch 11 and 12) |
| 11/11 – 11/15| 12.5 (cont.)  
Review/Extra Instruction  
Review |
| 11/18 – 11/22| 1.3 Problem Solving  
Section .030: Thursday, December 12th  
1:30 PM – 4:00 PM  
Section .031: Monday, December 9th  
8:00 AM – 10:30 AM  
Section .034: Monday, December 9th  
1:30 PM – 4:00 PM |
| 12/2 – 12/6  | |
| Finals Week  | Section .030: Thursday, December 12th  
1:30 PM – 4:00 PM  
Section .031: Monday, December 9th  
8:00 AM – 10:30 AM  
Section .034: Monday, December 9th  
1:30 PM – 4:00 PM |
MTH 099/110 Co-Requisite Courses Fall 2019 – Student Contract

Please check each of the following items to indicate your understanding, and return the page to me. If you need clarification about any item, feel free to contact me at sullivanjb1@sfasu.edu

1. _____ I understand each of the components of my course grade, and how my course grade is calculated.

2. _____ I understand how to create my MyMathLab account, where to find my assignments on MyMathLab, and how to find the due dates/times for those assignments.

3. _____ I am aware of all the outside-of-class resources that are available to me, and I am aware of how to access them, should I require extra help.

4. _____ I know how to find the class calendar on D2L, and how to change my D2L settings to my preferences.

5. _____ I understand my obligations under my Study Plan, how to fulfill those obligations, and how to provide documentation to the instructor.

6. _____ I understand that, should I miss class, I am responsible for the material covered, as well as any assignments due.

7. _____ Office meeting with Mr. Sullivan

Signature: ________________________________________________________________

Date: ___________________________ (Due by noon, Friday Sept 6th)