# MTH 128. Intermediate Mathematics for Elementary Teachers—Syllabus

**Thomas W. Judson, Associate Professor**  
**Department of Mathematics and Statistics**

## Course Description
Elementary concepts of geometry and measurement, probability, and statistics with an emphasis on problem solving and critical thinking. For a more detailed course description, Student Learning Outcomes, and Exemplary Educational Objectives, go to [http://www2.sfasu.edu/math/docs/syllabi/MTH128Syllabus.pdf](http://www2.sfasu.edu/math/docs/syllabi/MTH128Syllabus.pdf)

## Course Prerequisites
MTH 127 with a grade of C or better

## Course Time and Meeting Place
- MTH 128 Section 001 meets in Math 205 at 1–2:15 MW
- MTH 128 Section 002 meets in Math 205 at 2:30–3:45 MW.

## Instructor
- Thomas W. Judson, Associate Professor  
  Department of Mathematics and Statistics  
  Office: Math 316  
  TEL: (936) 468–1704  
  Email: judsontw @ sfasu.edu  
  Office Hours:  
  - Monday: 12–1 PM (in Math 316); 5–6 PM (in the AARC)  
  - Wednesday: 12–1 PM (in Math 316); 5–6 PM (in the AARC)  
  - Friday: 10–11 AM (in Math 316)  
  - Additional office hours by appointment

## Course Goals
- To understand and be able to apply the mathematics essential to successful teaching in the elementary school classroom.  
- To acquire a foundation in geometry and measurement, statistics, counting, and probability.  
- To gain skill in problem solving and critical thinking.

## Student Learning Outcomes (SLO):
At the end of MTH 128, a student who has studied and learned the material should be able to:

1. Use problem solving strategies to model, construct, and solve problems within and outside mathematics.  
2. Use technology to explore geometric concepts and perform geometric constructions and transformations.  
3. Apply spatial visualization skills to construct, transform, and measure two and three dimensional objects.  
4. Apply concepts of congruence and similarity.  
5. Use mathematical reasoning to develop strategies of conjecture and justification, leading to geometric proof.  
6. Understand measurement as a process and apply basic concepts of measurement to real world settings.  
7. Use basic counting principles and apply concepts of probability theory.  
8. Apply basic concepts of statistics, including data classification, collection, and analysis.  
9. Understand geometry as an axiomatic system.

## Program Learning Outcomes
There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

## Textbook
The required textbook for this course is *Mathematics for Elementary Teachers*, 5th ed., by Sybilla Beckman. **You will not need to purchase access to MyMathLab.** The textbook is available in hardback (ISBN 9780134392790), loose-leaf (ISBN 9780134423319), or electronic “Ebook” (ISBN 9780134423401) formats. Any format is acceptable. This textbook will also be used in both MTH 128 and MTH 129.

## Calculators

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http://faculty.sfasu.edu/judsontw/math128/syllabus.html
A simple four-function calculator will work fine for this course. We encourage you to bring your calculator to class with you everyday. However, you should not rely on computers and calculators to such an extent that they keep you from developing your own skills. Technology should be used as an aid, but without a good understanding of the underlying mathematical concepts, the calculator will quite happily mislead you without your even knowing it. In general, technology is a good thing, but as with everything, sometimes too much of a good thing can lead to problems. You may not use your cellphone or your iPod in class for a calculator.

Grading and Exams

The will be three 75 minute exams and a final exam. Your course grade will be determined as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Date</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework from the Textbook</td>
<td>Class assignment due dates are on the MTH 128 Calendar.</td>
<td>15%</td>
</tr>
<tr>
<td>TEKS Writing Assignments</td>
<td>Class assignment due dates are on the MTH 128 Calendar.</td>
<td>5%</td>
</tr>
<tr>
<td>Exam I</td>
<td>Exam dates are on the MTH 128 Calendar.</td>
<td>20%</td>
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<tr>
<td>Exam II</td>
<td>Exam dates are on the MTH 128 Calendar.</td>
<td>20%</td>
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<tr>
<td>Exam III</td>
<td>Exam dates are on the MTH 128 Calendar.</td>
<td>20%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>Monday, May 13 at 6:45-8:45 PM in Kennedy Auditorium</td>
<td>20%</td>
</tr>
</tbody>
</table>

Semester numerical scores will be converted into letter grades according to the following method.

<table>
<thead>
<tr>
<th>Range of numerical values</th>
<th>Corresponding Letter</th>
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</thead>
<tbody>
<tr>
<td>90–100</td>
<td>A</td>
</tr>
<tr>
<td>80–89</td>
<td>B</td>
</tr>
<tr>
<td>70–79</td>
<td>C</td>
</tr>
<tr>
<td>60–69</td>
<td>D</td>
</tr>
<tr>
<td>0–59</td>
<td>E</td>
</tr>
</tbody>
</table>

When we calculate your final grade at the end of the course, we will calculate a score on a 0–100 point scale using the scores that you have obtained during the course, and using the grade breakdown given above. Your course grade will then be obtained using this table. In the event of a fractional score, we will always round up to the nearest integer. There is no provision for extra credit in this course.

Exam corrections. You rework any exam questions for which you lost credit. Errors should also be classified according to the instructor’s criteria. These assignments will be returned to you for editing until they are completely correct. Credit for this assignment will not be awarded until all errors are completely corrected. These assignments are classified as “homework” and will not alter exam grades.

Ressurection Policy. If you score 70% or better on the final exam and this higher than your lowest midterm exam, we will replace your lowest midterm grade with your final exam grade. The resurrection policy does not apply to your homework grade.

Important Information about the Math 128 Final Exam

The final exam for MTH 128 is on Monday, May 13 at 6:45-8:45 PM in Kennedy Auditorium. Students having another exam at this time may take the MTH 128 final at an earlier time.

Exam Policy

Exams are scheduled far in advance, and it is impossible to move the time or date. However, in rare cases where it is impossible for an individual to take the exam at the scheduled time, we will work with you to make other arrangements. Exceptions for taking the exam out of sequence are the following:

1. A medical excuse. Please provide proper documentation according to university rules.
2. A University sponsored event such as an athletic tournament, a play, or a musical performance. Your coach or director must contact us in advance. Athletic practices and rehearsals do not fall into this category.
3. A religious holiday. Please send a short email explaining the situation.
4. Extremec hardship such as a family emergency. Please have the proper university office us.

The above are the only allowable excuses for taking the exam before the scheduled time. Under no circumstances do we give late exams. Since we can only accomodate a limited number of students taking the exam at an earlier time, please make sure that you fall into one of the above categories before you contact us. If you miss an exam due to illness or a family emergency, you will not be penalized. We will assign you a grade based on the rest of your coursework. If you have a conflict with the final exam, you must contact the Registrar. Only the Registrar can schedule an out-of-sequence final exam.

Cell phone use is not permitted in or out of the classroom during all exams. If you bring your cell phone to the exam venue, please remember to turn it off. Violation of this policy will be considered as academic dishonesty and dealt with accordingly. You will not be permitted to use your cell phone as a calculator, so plan ahead.

Homework and Quizzes

Homework assignments from the textbook can be found on the calendar page (http://faculty.sfasu.edu/judsontw/math128/calendar.html). Homework will also be assigned from our textbook and graded. Your daily average is based on your grades from homework from the textbook and any other daily grades that are assigned for a grade. Late homework will not be accepted.

Making Your Homework Easy to Read and Easy to Grade

- Make sure your handwriting is legible.
- Homework with multiple pages should be stapled in the upper left-hand corner.
- In the upper right-hand corner you should write (in this order):
  - Your name
  - MTH 128–001 or MTH 128–002
  - The homework set number
  - The due date of the homework
- Problems should be clearly labeled and numbered on the left side of the page. There should also be a visible separation between problems. Don’t forget to staple your homework together if you are submitting several pages.
- You should leave the entire left margin blank so that the grader can use this space for scoring and comments.
- To ensure that each problem is graded, problems and solutions should be written in the order that they are assigned.
- It is good practice to first work out the solutions to homework problems on scratch paper, and then to neatly write up your solutions. This will help you turn in a clean finished product.
- You should write up your solutions by yourself. You should always acknowledge any help received at the top of the assignment or in the right-hand margin.

The Classroom

Any questions you ask in class will likely be ones that other students will want answered as well, so get over any hesitation you might have and ask questions as the material is presented. You will not be penalized for doing this, no matter how trivial or simple you think your questions might seem. Remember, the class is being held for you to learn the material, not just to give you a time to copy notes off of a blackboard, so be sure to get help when you need it and stay involved in your class.

Getting Help with MTH 128

- Free tutoring is available from the AARC. They offer Learning Teams, one-on-one tutoring, and the Math Walk-in Table. The hours for the Walk-in Table will be 1 PM to 8 PM Monday, Tuesday, Wednesday, and Thursday as well as 4 PM to 8 PM on Sundays. Sign-ups for Learning Teams begin soon. If you need help signing up, the AARC staff (first floor of library, right-hand side) will be happy to assist. You can find more information on the AARC website, (http://www.sfasu.edu/aarc).
- Remember to take advantage of office hours.

Course Outline

- **Geometric Figures: Definitions, Properties, and Relationships.** Approximate time spent: 15%
  - Build basic vocabulary of geometric figures
  - Analyze properties of two and three dimensional figures
  - Explore relationships between lines, planes, polygons, and solids
- **Geometry and Measurement.** Approximate time spent: 30%
  - Investigate standard and nonstandard units of measure
  - Explore linear measurement: perimeter, circumference
  - Explore area of regular and irregular shapes
  - Use the Pythagorean Theorem appropriately
  - Explore measures of surface area and volume: lateral surface area, base, height, slant height
  - Investigate temperature as a form of measurement
- **Geometry of Congruence, Similarity, and Transformations.** Approximate time spent: 20%
  - Investigate properties of congruent and similar figures
  - Explore ratio and proportion as applied to geometric figures
  - Perform basic constructions using Mira, paper folding, compass, straightedge, and technology (when applicable)
  - Perform rigid and similarity transformations on a variety of figures
  - Explore properties and outcomes of rigid transformations
  - Explore types of symmetry
- **Statistics.** Approximate time spent: 15%
  - Collect, organize, analyze, and present real data
  - Utilize appropriate types of graphs for various data types
  - Interpret graphs and tables
- Investigate the use of graphs to distort statistics
- Analyze measures of central tendency and dispersion

**Counting Principles and Probability.** Approximate time spent: 15%
- Explore basic counting principles
- Understand and utilize factorial notation
- Explore the language of uncertainty: sample space, outcome, event, equally likely, mutually exclusive events, certain and impossible events
- Investigate experimental probability: simulation
- Determine Expected Value

**Credit Hours**
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.

See [http://www.sfasu.edu/policies/5.4-credit-and-contact-hours.pdf](http://www.sfasu.edu/policies/5.4-credit-and-contact-hours.pdf).

**Add/Drop Policy**

**Attendance Policy**
Regular attendance is expected in MTH 128 and is 5% of your course grade. You are allowed two unexcused absences in MTH 128. Additional unexcused absences will result in a one percent deduction in your attendance grade. Attendance and Excused Absences Policy can be found at [http://www.sfasu.edu/policies/class-attendance-6.7.pdf](http://www.sfasu.edu/policies/class-attendance-6.7.pdf).

**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). 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.

**You are off the grid in MTH 128.** You may use your tablet or notebook computer to access the textbook or CoCalc in class; otherwise, consider yourself off the grid when you are in MTH 128. Please be respectful of your fellow students and your instructor. Cell phone use and texting are not allowed in class. Remember to turn your cell phone off and place it in your bag or backpack before entering the classroom. Any cell phone that is visible will be collected and returned to you at the end of class. Exceptions to this rule include volunteer firemen, physicians on-call, those who are on the shortlist to receive an organ transplant, etc.

**Academic Integrity (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.

**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.

Any acts of academic dishonesty will be dealt with according to University policy. Penalties for academic dishonesty may result in a failing grade for the assignment, failing the course, or even dismissal from the university.

Please read the complete Student Academic Dishonesty policy at http://www.sfasu.edu/policies/4.1-student-academic-dishonesty.pdf

Last modified: January 21, 2019
## MTH 128 Course Calendar

<table>
<thead>
<tr>
<th>Week</th>
<th>Date</th>
<th>Topic</th>
<th>Activity (due on this date)</th>
<th>Assignment (due on this date)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1/21/19</td>
<td>MLK Day</td>
<td>No Class</td>
<td></td>
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<tr>
<td></td>
<td>1/23/19</td>
<td>Introduction</td>
<td></td>
<td>10A</td>
</tr>
<tr>
<td>2</td>
<td>1/28/19</td>
<td>§10.1. Lines and Angles</td>
<td>10B, 10C</td>
<td>Read §10.1</td>
</tr>
<tr>
<td></td>
<td>1/30/19</td>
<td>§10.1. Lines and Angles (continued)</td>
<td>10D, 10E, 10G</td>
<td>§10.1. Problem 2; pp. 463–465</td>
</tr>
<tr>
<td>3</td>
<td>2/4/19</td>
<td>§10.3. Circles and Spheres</td>
<td>10L, 10M, 10O</td>
<td>§10.1. Problem 11; pp. 463–465</td>
</tr>
<tr>
<td></td>
<td>2/6/19</td>
<td>§10.4. Triangles, Quadrilaterals and Other Polygons</td>
<td>10P, 10Q, 10R, 10T</td>
<td>§10.3. Problems 2, 3; pp. 476–477</td>
</tr>
<tr>
<td></td>
<td>2/13/19</td>
<td>Exam I—Chapter 10</td>
<td></td>
<td>§10.4. Problems 8, 11; pp. 487–490</td>
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<td></td>
<td>2/20/19</td>
<td>§11.4. Converting from One Unit of Measurement to Another</td>
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<td></td>
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<td>§12.1. Areas of Rectangles Revisited</td>
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<td></td>
<td></td>
<td>§12.3. Areas of Triangles</td>
<td>12C, 12D, 12E, 12F</td>
<td>§11.4. Problems 1, 3; pp. 521–523</td>
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<td></td>
<td>2/27/19</td>
<td>§12.4. Areas of Parallelograms and Other Polygons</td>
<td>12G, 12H, 12I</td>
<td>§12.1. Problem 4; pp. 529–530</td>
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<td></td>
<td>3/13/19</td>
<td>Exam II—Chapter 11–12</td>
<td></td>
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<td>9</td>
<td>3/18/19</td>
<td>Spring Recess</td>
<td>No Class</td>
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<tr>
<td></td>
<td>3/20/19</td>
<td>Spring Recess</td>
<td>No Class</td>
<td></td>
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<tr>
<td>10</td>
<td>3/25/19</td>
<td>§12.9. Using the Moving and Additivity Principles to Prove the Pythagorean Theorem</td>
<td>12U, 12V, 13A, 13B</td>
<td>TEKS writing assignment due</td>
</tr>
<tr>
<td></td>
<td></td>
<td>§13.1. Polyhedra and Other Solid Shapes</td>
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<tr>
<td>Date</td>
<td>Topic</td>
<td>Assignments</td>
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<tr>
<td>4/10/19</td>
<td>§14.4. Constructions with Straightedge and Compass</td>
<td>14L, 14M, 14N</td>
<td></td>
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</tr>
<tr>
<td>4/15/19</td>
<td>§14.5. Similarity</td>
<td>14Q, 14U</td>
<td></td>
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<tr>
<td>4/17/19</td>
<td>§14.6. Dilations and Similarity</td>
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<tr>
<td>4/22/19</td>
<td>Video</td>
<td></td>
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<tr>
<td>4/24/19</td>
<td>Exam III—Chapters 12.9, 13, and 14 Exam II—Chapter 11–12</td>
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<tr>
<td>5/1/19</td>
<td>§15.3. The Center of Data: Mean, Median, and Mode</td>
<td>15K, 15L, 15N</td>
<td></td>
<td></td>
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<tr>
<td>5/6/19</td>
<td>§15.4. Summarizing, Describing, and Comparing Data Distributions</td>
<td>15T, 15U, 15V, 15W</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/8/19</td>
<td>Video</td>
<td></td>
<td></td>
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<tr>
<td>5/13/19</td>
<td>Final Exam at 6:45–8:45 PM in Kennedy Auditorium</td>
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</tbody>
</table>

Last modified: January 21, 2019
Course description: Provides an introduction to mathematical thinking emphasizing analysis of information for decision-making.

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

Credit hours: 3

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.

Course Prerequisites and Corequisites: See general course prerequisites.

General Education Core Curriculum: This course has been selected to be part of SFA’s core curriculum. The Texas Higher Education Coordinating Board has identified six objectives for all core courses: Critical Thinking Skills, Communication Skills, Empirical and Quantitative Skills, Teamwork, Personal Responsibility, and Social Responsibility. SFA is committed to the improvement of its general education core curriculum by regular assessment of student performance on these six objectives. Assessment of these objectives at SFA will be based on student work from all core curriculum courses. This student work will be collected in D2L, the assessment management system selected by SFA to collect student work for core assessment.

The chart below indicates the core objectives identified by SFA to be assessed in this course. The instructor of each section of the course will provide the assignment(s) that will be used to assess the objectives as well as the date(s) by which the assignments must be completed and uploaded in D2L.

<table>
<thead>
<tr>
<th>Core Objective</th>
<th>Definition</th>
<th>Course Assignment Title</th>
<th>Date Due in D2L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Empirical and Quantitative Skills</td>
<td>To include the manipulation and analysis of numerical data or observable facts resulting in informed conclusions.</td>
<td>The instructor of each section will determine the assignment for this assessment.</td>
<td>Only assessed in spring of odd years. (See instructor for due date(s).)</td>
</tr>
</tbody>
</table>
Outline of Suggested Topics: The following is a list of suggested topics. These topics can be augmented or diminished, as long as the objectives for the course are practiced. Decisions concerning order of presentation are left to individual instructors.

Course outline:                              Approximate time spent

- Critical Thinking (Chapter 1) [CO: 1,2,3] 16%
  - Inductive and Deductive Reasoning
  - Problem-Solving with Patterns
  - Problem-Solving Strategies
- Logic (Chapter 2) [CO: 1,2,3] 16%
  - Logic, Statements, and Quantifiers
  - Truth Tables, Equivalent Statements and Tautologies
  - The Conditional and Biconditional
  - The Conditional and Related Statements
  - Arguments
- Set Theory (Chapter 3) [CO: 1,2,3] 16%
  - Basic Properties of Sets
  - Complements, Subsets and Venn Diagrams
  - Set Operations
  - Infinite Sets
- Financial Mathematics (Chapter 11) [CO: 1,2,3] 16%
  - Simple Interest
  - Compound Interest
  - Credit Cards and Consumer Loans
  - Stocks, Bonds and Mutual Funds
  - Home Ownership
- Counting and Probability (Chapter 12) [CO: 1,2,3] 16%
  - The Counting Principle
  - Permutations and Combinations
  - Probability and Odds
  - Addition and Complement Rules
  - Conditional Probability
  - Expectations
- Statistics (Chapter 13) [CO: 1,2,3] 16%
  - Measures of Central Tendency
  - Measures of Dispersion
  - Measures of Relative Position
  - Normal Distributions
  - Linear Regression and Correlation

Explicit instruction in Critical Thinking, Communication, and Empirical and Quantitative Reasoning is in addition to implicit instruction, modeling and practice that occur daily in the discussion of logic, sets, financial mathematics, counting, probability, and statistics. This explicit instruction includes explanation of solving mathematical problems by thinking critically, communicating logically ordered solutions with complete and correct notation, and applying empirical or quantitative skills as appropriate to the problem.

4%

Academic Integrity
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 (SFA policy 4.1):**

Academic dishonesty includes both cheating and plagiarism. Cheating includes, but is not limited to:

- using or attempting to use unauthorized materials on any class assignment or exam;
- falsifying or inventing of any information, including citations, on an assignment;
- helping or attempting to help other student(s) in an act of cheating or plagiarism.

Plagiarism is presenting the words or ideas of another person as if they were one's own. Examples of plagiarism include, but are not limited to:

- submitting an assignment as one's own work when it is at least partly the work of another person;
- submitting a work that has been purchased or otherwise obtained from the Internet or another source;
- incorporating the words or ideas of an author into one's paper or presentation without giving the author credit.

**Withheld Grades Semester Grades (SFA Policy 5.5)**

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 10.4). 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.

**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]
There are no specific program learning outcomes for this major addressed in this course. It is a general education core curriculum course and/or a service course.

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