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Office: Bush Math Building, Room 352
Office Hours: MWF 10 – 11am, TTh 8 – 9am (or by appointment)
Class meeting time and place: Tuesdays 2-3:15 pm, Bush Math Building, Room 357

Course Description: Student participation in general and specific topics in mathematics, primarily focused on developing elementary skills required in mathematical fields. Mathematical models will serve as the tool to build investigatory skills and mathematical curiosity.

Program Learning Outcomes (PLO):
Students graduating from SFASU with a B.S. Degree and a major in mathematics will:
1. Demonstrate comprehension of core mathematical concepts.
2. Execute mathematical procedures accurately, appropriately, and efficiently.
3. Apply principles of logic to develop and analyze conjectures and proofs.
4. Demonstrate competence in using various mathematical tools, including technology, to formulate, represent, and solve problems.
5. Demonstrate proficiency in communicating mathematics in a format appropriate to expected audiences.

Grade Components

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<thead>
<tr>
<th>Grade Components</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>30% in-class (or zoom) participation</td>
<td>90%-100%</td>
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<tr>
<td>40% outside reflections &amp; Homework</td>
<td>80%-90%</td>
</tr>
<tr>
<td>30% Presentation (including preparation)</td>
<td>70%-80%</td>
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<td></td>
<td>60%-70%</td>
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Course Requirements

- **In-class problem-solving** activities will be assigned throughout the semester. They are designed to foster critical thinking, perseverance, and synthesis of different types of mathematical information. Active engagement in these activities is expected. If you plan to be absent from any of the classes, you must make arrangements beforehand for a makeup assignment. Most of the problems used from presentations later in the semester will come from the ones we have discussed in class.
- **Presentations on a nonstandard mathematical problem** begin in class and continue on your own. Your work on this problem and its presentation will be a central focus of this course. Your presentation will be given twice; the second presentation will be in front of the class and should incorporate feedback you receive on your first presentation. Your presentation should incorporate slides (PowerPoint, Beamer or other) and should last 10-20 minutes. Mathematics faculty and students are encouraged to attend our presentations, and your presentations will be videotaped.
- **Providing feedback** on your peers’ presentations. Written rubrics to turn in will be provided.
- **Reflections** on videos and essays will be assigned. After our presenter from the Center for Career and Professional Development presents, you will also be asked to prepare a resume.
- **Attendance** at three extracurricular mathematical activities, which may include the Texas Undergraduate Math Conference, math teachers’ circle meetings, department colloquia, or other activities. You will be expected to turn in a ½ -page reflection for each activity.
- **Meeting with your faculty mentor** is also expected. You will be assigned a faculty mentor and will meet at least three times. The first time will be a “get-to-know-you” session. The second time will be to discuss your assigned problem. The third will be to practice your presentation.
**General Policies and Information**

- You earn your grade by *communicating* your understanding of the material through the assignments and tests. Clearly communicating mathematics will be essential in this course.
- I will send e-mails to the entire class during the semester. Check your SFA e-mail account frequently.
- To contact me, you may call my office, drop by my office, or e-mail me. I will do my best to reply quickly.
- Students are expected to respect the learning environment of their fellow students. Unless told otherwise, the use of mobile phones, mp3 players, PDAs, etc., is forbidden during class.

**Attendance (Class Participation) Policy**

Students are expected to actively participate in class. Because this course is going to be a combination of face-to-face and remote access, here are three general (and overlapping) paths by which students can demonstrate their participation. (1) the student should show up to class on time and engage in the discussion by asking questions, writing notes, and working relevant exercises without being a distraction to others. (2) the student will log into the live-stream via zoom and engage with the discussion by voicing questions and/or the “chat” feature. (3) the student will need to demonstrate active participation other ways, including but not limited to emailing the instructor questions, submitting documents clearly, punctually, and professionally to the appropriate dropbox, attending (possibly virtual) office hours, etc.

**COVID-19 MASK POLICY**

Masks (cloth face coverings) must be worn over the nose and mouth at all times in this class and appropriate physical distancing must be observed. Students not wearing a mask and/or not observing appropriate physical distancing may be asked to leave the class. 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.

**University Policies**

- **Academic Integrity (Policy 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.

  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**

  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.

  Please read the complete policy at [http://www.sfasu.edu/policies/academic_integrity.asp](http://www.sfasu.edu/policies/academic_integrity.asp).

- **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 [http://www.sfasu.edu/policies/student_conduct_code.asp](http://www.sfasu.edu/policies/student_conduct_code.asp)). 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.