MATH 0398 NALG– Fundamental Mathematics (Non-Algebra Pathway) – Fall 2023

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Department: Mathematics and Statistics
Email: deshald@sfasu.edu

Class meeting time and place: Section 053 – Tuesday/Thursday 8:00 – 9:15 am in Math 216
Section 054 – Tuesday/Thursday 9:30 – 10:45 am in Math 216

Office Hours: Mondays and Wednesdays 1:00 – 3:00 and Tuesdays and Thursdays 12:00 – 12:30 in Math 347

Purpose of Course:
This course will prepare you to move directly to SFA’s MATH 1332 CoReq (Math in Society) or MATH 1342 CoReq (Statistics) course. This is a non-algebra pathway that skips MTH 0399. For this reason you will not be eligible to take a regular MATH 1332 or MATH 1342 elsewhere, or any course that requires algebra. To do that you must first pass MATH 0399 or score at least 350 on the TSI Assessment.

NOTE: “Passing” the TSI Assessment does not equate to passing MATH 0398! If you plan to place out of MATH 0398, you should attempt this before the last date to drop/add. If you place out of MATH 0398 during the semester, you should continue participating in the course to prepare for credit math, otherwise you will receive a QF final grade in MATH 0398. The placement test does not prepare you for the next class!

Nature of Course:
Approximately two thirds of this course covers mathematical skills necessary to be successful in MATH 1332 and MATH 1342, and the other third covers student skills necessary to be successful in any course. You will have typical homework assignments covering both math and study skills.

Text and Materials:
Homework will be completed using the “Quizzes” feature in D2L. Make sure to log into your D2L account daily for the course to complete your assigned homework assignments.

Fill-in-the-blank notes will be posted on D2L for each section that we cover. You are responsible for printing them and bringing them to class.

You will be required to complete in-class assignments on notebook paper, and then scan your work as a pdf and upload it to a d2l dropbox. In order to scan your work as a pdf, there are several free apps that you can download and use on your phone. These include CamScanner, Genius Scan, Microsoft Office Lens, etc.

You will need a scientific calculator for part of this class. Graphing calculators and calculators on cell phones, laptops, tablets, etc. are not permitted. A TI-30XS Multiview is recommended for this class and is also acceptable for both MTH 1332 and MTH 1342.

Attendance Policy:
Attendance is expected and recorded for all students. Attendance is factored into your course grade through daily in-class assignments. Also, missing classes will significantly reduce the instruction you receive, and will therefore naturally decrease your semester grade.

You must make a commitment to attend every class, to arrive on time and to stay the entire time. 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 - one to two hours every day. Most importantly, ask for help when you need it.
**Course Requirements:**

There will be a homework assignment through d2l for each section of material that is covered in class. These assignments will be due prior to the beginning of the following class period. You will have three attempts on the homework assignment. The highest grade of the three attempts for each homework assignment will be recorded into the gradebook. *Homework assignments will not be accepted late nor can be made up.* Attempt all d2l homework assignments well in advance of the due date so that any mathematical and/or technical problems can be cleared up ahead of time.

At the end of some class periods, an In-Class assignment will be assigned. *In-Class assignments will not be accepted late nor can be made up.*

There will be three exams and a final exam. The final exam is comprehensive and mandatory. Each exam will be given in person during class time on the dates listed below.

- **Exam 1 – Tuesday, Sept. 19th**
- **Exam 2 – Tuesday, Oct. 17th**
- **Exam 3 – Thursday, Nov. 16th**
- **Final – Section 053 – Tuesday, Dec. 12 at 8:00 and Section 054 – Thursday, Dec 14 at 8:00 am**

Please note that the dates for our in-class exams are subject to change, but the final is university scheduled and cannot be taken at a different time.

**Grading Policy:**

Your final grade will be determined as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Component</th>
<th>Grade Range</th>
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</thead>
<tbody>
<tr>
<td>10%</td>
<td>D2L Homework Average</td>
<td>90% - 100% RA</td>
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<tr>
<td>10%</td>
<td>In-Class Activities</td>
<td>80% - 90% RB</td>
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<tr>
<td>60%</td>
<td>Tests (3 @ 20% each)</td>
<td>70% - 80% RC</td>
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<tr>
<td>20%</td>
<td>Comprehensive Final Exam</td>
<td>60% - 70% RD</td>
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<tr>
<td>100%</td>
<td>Final Course Grade</td>
<td>0% - 60% RF</td>
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To pass the course you must have an overall class average of at least an RC (70%). Students who make an RA will have the choice to take a regular MATH 1332 or 1342 course or a corequisite version.

Grades can be accessed through Desire2Learn (D2L). You should check your posted grades often and communicate any questions. You must check your grades prior to final exam week. Unless you email prior to finals week, you indicate that you are in agreement with the grades posted. Do not contact the instructor during exam week to make up an assignment or to be allowed extra credit.

**Additional Help:** The AARC (Academic Assistance and Resource Center) provides tutoring and mentoring services including: For more information, visit the AARC (right side of the first floor of Steen Library) or the AARC webpage [http://library.sfasu.edu/aarc/](http://library.sfasu.edu/aarc/). **Note:** Students visiting the AARC for tutoring during the first half of the semester should check the walk-in table schedule for MTH 1332 tutors. After the second exam, any tutor will be able to help. The AARC provides writing help as well as math tutoring.

See [https://math.sfasu.edu/docs/syllabi/MATH0398Syllabus.pdf](https://math.sfasu.edu/docs/syllabi/MATH0398Syllabus.pdf) for elements common to all sections.
<table>
<thead>
<tr>
<th>Week</th>
<th>Tuesday</th>
<th>Thursday</th>
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<tbody>
<tr>
<td>Week 1</td>
<td><strong>Syllabus and Course Set-up</strong></td>
<td><strong>Logic Symbols: Simple and Compound Statements</strong></td>
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<tr>
<td>8/28-9/1</td>
<td><strong>Logic Symbols : Statements and Negations</strong></td>
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<tr>
<td>Week 2</td>
<td><strong>Logic Symbols: Translating Statements</strong></td>
<td><strong>Logic Truth Values: Conjunction/Disjunction</strong></td>
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<td>9/4-9/8</td>
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<td>Week 3</td>
<td><strong>Logic Truth Values: Conditional/Biconditional</strong></td>
<td><strong>Review</strong></td>
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<td>9/11-9/15</td>
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<td>Week 4</td>
<td><strong>Exam 1 – Tuesday, Sept. 19th</strong></td>
<td><strong>Sets</strong></td>
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<td>9/18-9/22</td>
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<td>Week 5</td>
<td><strong>Subsets</strong></td>
<td><strong>Set Operations Part 1</strong></td>
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<td>9/25-9/29</td>
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<td>Week 6</td>
<td><strong>Sets Operations Part 2</strong></td>
<td><strong>Venn Diagrams Part 1</strong></td>
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<td>10/2-10/6</td>
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<td>Week 7</td>
<td><strong>Venn Diagrams Part 2</strong></td>
<td><strong>Review</strong></td>
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<td>10/9-10/13</td>
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<td>Week 8</td>
<td><strong>Exam 2 – Tuesday, Oct. 17th</strong></td>
<td><strong>Number Lines and Place Value</strong></td>
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<td>10/16-10/20</td>
<td><strong>Rounding and Comparing Decimals</strong></td>
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<td>Week 9</td>
<td><strong>Integer Operations</strong></td>
<td><strong>Fraction Operations</strong></td>
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<td>10/23-10/27</td>
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<td>Week 10</td>
<td><strong>Ratios and Proportions</strong></td>
<td><strong>Order of Operations and Evaluating Formulas</strong></td>
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<td>10/30-11/3</td>
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<td>Week 11</td>
<td><strong>Solving Simple Equations</strong></td>
<td><strong>Percent and Applications</strong></td>
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<td>11/6-11/10</td>
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<td>Week 12</td>
<td><strong>Review</strong></td>
<td><strong>Exam 3 – Thursday, Nov. 16th</strong></td>
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<td>11/13-11/17</td>
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<td>11/20-11/24</td>
<td><strong>Thanksgiving Break</strong></td>
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<td>Week 13</td>
<td><strong>Measures of Central Tendency</strong></td>
<td><strong>Evaluating Formulas</strong></td>
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<td>11/27-12/1</td>
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<td>Week 14</td>
<td><strong>Review</strong></td>
<td><strong>Review</strong></td>
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<td>12/4-12/8</td>
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<td>12/11-12/15</td>
<td><strong>Section 053 - Final Exam 8:00</strong></td>
<td><strong>Section 054 - Final Exam 8:00</strong></td>
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MATH 0398 - Introductory Algebra
Course Syllabus

Course Description: Computations and applications involving fractions, decimals, percent, ratio and proportion; properties of the real number system; linear equation solving; beginning algebraic concepts; geometry. Will not count toward any degree requirement including elective credit. May be required of students with a marginal background in mathematics.

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 Outline: Approximate Time Spent:

- Prime factorization and LCMs 25%
- Operations on common fractions
- Operations on decimals
- Percent conversions
- Exponents and order of operations
- Geometry
- Evaluating and translating expressions
- Sets of numbers, order, absolute value
- Adding signed numbers
- Subtracting signed numbers
- Multiplication of signed numbers
- Division of signed numbers
- Properties of real numbers, factoring, combining like terms 30%
- Removing parentheses, simplifying, order of operations
- Addition principle of equation solving
- Multiplication principle of equation solving
- General equation solving
- Evaluating formulas, and solving formulas for a specified variable
- Percent applications
• Other applications
• Solving inequalities

• Graphs and applications of linear equations 15%
• More with graphing and intercepts
• Slope and applications
• Graphing using the slope and y-intercept

• Exponent properties 15%
• Polynomials and terminology
• Addition and subtraction of polynomials
• Multiplication of polynomials
• FOIL and squaring binomials

• Factoring out common factors, factoring by grouping 15%
  • Factoring $x^2 + bx + c$
  • Factoring $ax^2 + bx + c, \ a \neq 1$
• Factoring differences of squares
• General strategies for factoring
• Solving quadratic equations by factoring (optional)
• Applications of quadratic equations (optional)

**Student Learning Outcomes (SLO):** At the end of MATH 0398, a student who has studied and learned the material should be able to:

1. Perform operations without a calculator on integers, fractions, and decimals.
2. Solve problems involving geometric formulas for perimeter, and area.
3. Use order of operations to evaluate expressions.
4. Perform percent conversions and calculations, and solve percent applications.
5. Recognize, name, and apply properties of real numbers.
6. Simplify expressions by removing parentheses and combining like terms.
7. Solve linear equations and inequalities.
8. Solve applications involving linear equations.
9. Understand and evaluate variable expressions.
10. Use the rectangular coordinate system to investigate linear functions and graphs.
11. Use exponent properties and perform operations on polynomials.
12. Factor polynomials
13. Organize and communicate in proper mathematical form all of the steps involved in the topics above.
14. Create and use note cards, study pages, mind maps, self-quizzes, and other study techniques.

**Academic Integrity**

The Code of Student Conduct and Academic Integrity outlines the prohibited conduct by any student enrolled in a course at SFA. It is the responsibility of all members of all faculty, staff, and students to adhere to and uphold this policy.

Articles IV, VI, and VII of the new Code of Student Conduct and Academic Integrity outline the violations and procedures concerning academic conduct, including cheating, plagiarism, collusion, and misrepresentation. Cheating includes, but is not limited to: (1) Copying from the test paper (or other assignment) of another student, (2) Possession and/or use during a test of materials that are not authorized by the person giving the test, (3) Using, obtaining, or attempting to obtain by any means the whole or any part of a non-administered test, test key, homework solution, or computer program, or using a test that has been administered in prior classes or semesters without permission of the Faculty member, (4) Substituting for another person, or permitting another person to substitute for one’s self, to take a test, (5) Falsifying research data, laboratory reports, and/or other records or academic work offered for credit, (6) Using any sort of unauthorized resources or technology in completion of educational activities.

Plagiarism is the appropriation of material that is attributable in whole or in part to another source or the use of one’s own previous work in another context without citing that it was used previously, without any indication of
the original source, including words, ideas, illustrations, structure, computer code, and other expression or media, and presenting that material as one's own academic work being offered for credit or in conjunction with a program course or degree requirements.

Collusion is the unauthorized collaboration with another person in preparing academic assignments offered for credit or collaboration with another person to commit a violation of any provision of the rules on academic dishonesty, including disclosing and/or distributing the contents of an exam.

Misrepresentation is providing false grades or résumés; providing false or misleading information in an effort to receive a postponement or an extension on a test, quiz, or other assignment for the purpose of obtaining an academic or financial benefit for oneself or another individual or to injure another student academically or financially.

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. For additional information, go to https://www.sfasu.edu/policies/course-grades-5.5.pdf.

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.

Student Wellness and Well-Being
SFA values students’ overall well-being, mental health and the role it plays in academic and overall student success. Students may experience stressors that can impact both their academic experience and their personal well-being. These may include academic pressure and challenges associated with relationships, emotional well-being, alcohol and other drugs, identities, finances, etc.

If you are experiencing concerns, seeking help, SFA provides a variety of resources to support students’ mental health and wellness. Many of these resources are free, and all of them are confidential.

On-campus Resources:
The Dean of Students Office (Rusk Building, 3rd floor lobby)
www.sfasu.edu/deanofstudents
936.468.7249
dos@sfasu.edu

SFA Human Services Counseling Clinic Human Services, Room 202
www.sfasu.edu/humanservices/139.asp
936.468.1041

The Health and Wellness Hub “The Hub”
www.sfasu.edu
To support the health and well-being of every Lumberjack, the Health and Wellness Hub offers comprehensive services that treat the whole person – mind, body and spirit. Services include:

- Health Services
- Counseling Services
- Student Outreach and Support
- Food Pantry
- Wellness Coaching
- Alcohol and Other Drug Education

www.sfasu.edu/thehub
936.468.4008
thehub@sfasu.edu

Crisis Resources:

- Burke 24-hour crisis line: 1.800.392.8343
- National Suicide Crisis Prevention: 9-8-8
- Suicide Prevention Lifeline: 1.800.273.TALK (8255)
- Crisis Text Line: Text HELLO to 741-741

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.

Date of document: 08/23/2023