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

Name: Hilary Dosser
Department: Mathematics and Statistics
Email: dosserh@sfasu.edu
Phone: 936-468-1591
Office: Math 333

Class meeting time and place: Section 051 – MWF 11:00-11:50 – Math 214

Office Hours: These hours have been set aside to help students. Additional times are available by appointment. Office hours are available through Zoom upon request.

<table>
<thead>
<tr>
<th></th>
<th>Monday</th>
<th>Tuesday</th>
<th>Wednesday</th>
<th>Thursday</th>
<th>Friday</th>
</tr>
</thead>
<tbody>
<tr>
<td>Time</td>
<td>10:00-10:50</td>
<td>11:00-12:15</td>
<td>10:00-10:50</td>
<td>11:00-12:15</td>
<td>10:00-10:50</td>
</tr>
</tbody>
</table>

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:
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.

Homework will be completed using the “Quizzes” feature in d2l.

Some class work will need to be uploaded as a pdf to a d2l dropbox. 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 MATH 1332 and MATH 1342.

Course Requirements:
There will be a homework assignment through the Quiz feature in d2l for each section of material that is covered in class. These assignments will generally be due at midnight on class days. You will have three attempts on each homework assignment. The highest grade of the three attempts for each homework assignment will be recorded in the gradebook. Homework assignments will not be accepted late, nor can they be made up. Attempt all d2l assignments well in advance of the due date so that any mathematical and/or technical problems can be cleared up ahead of time.
Additional classwork will also be assigned. This includes in-class activities, worksheets, practice assignments, etc. Classwork will be turned in through a dropbox in d2l. You will need to complete the assigned work and then scan and save your work as a pdf. The pdf will need to be uploaded to the appropriate dropbox in d2l prior to the due date. **In-class activities cannot be made up.** **Worksheets and practice assignments will not be accepted late.**

There will be three exams and a final exam.
- Exam 1 – Monday, September 18
- Exam 2 – Friday, October 13
- Exam 3 – Wednesday, November 15
- Final Exam – **Wednesday, December 13 – 10:30-12:30**

**Note that the in-class exam dates are subject to change, but the final is university scheduled and cannot be taken at a different time without permission from the Dean of the College of Sciences and Mathematics.**

The final exam is comprehensive and mandatory. Your final exam grade can be used to replace a low or missing exam grade. **Therefore, there will be no make-up exams.** If you miss an exam, your final exam grade will be substituted in place of the missing exam grade.

**Grading Policy:**

Your final grade will be determined as follows:

<table>
<thead>
<tr>
<th>Percentage</th>
<th>Description</th>
<th>Grade Range</th>
<th>Letter Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>10%</td>
<td>Classwork Average [CO: 1,2,3]</td>
<td>90% - 100%</td>
<td>RA</td>
</tr>
<tr>
<td>10%</td>
<td>Homework (d2l) Average [CO: 1,2,3]</td>
<td>80% - 90%</td>
<td>RB</td>
</tr>
<tr>
<td>60%</td>
<td>Tests (3 @ 20% each) [CO: 1,2,3]</td>
<td>70% - 80%</td>
<td>RC</td>
</tr>
<tr>
<td>20%</td>
<td>Comprehensive Final Exam [CO: 1,2,3]</td>
<td>60% - 70%</td>
<td>RD</td>
</tr>
<tr>
<td>100%</td>
<td>Final Course Grade</td>
<td>0% - 60%</td>
<td>RF</td>
</tr>
</tbody>
</table>

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 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.

**Attendance Policy:**

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

To be successful in this course, 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.

**Contacting your instructor:**

Other than visiting my office hours, the best way to contact me is through email. When emailing me, remember:

- Email me directly at dosserh@sfasu.edu. Do NOT use D2L email to contact me.
- Include your name, class number, and section number in every email.
• Do not wait until the last minute to email me and expect an immediate response. I will respond to emails by the end of the next business day.

**Additional Help:**
Free tutoring is available from the AARC (Academic Assistance and Resource Center). They offer the Math Walk-in Table and one-on-one tutoring. For more information, visit the AARC (right side of the first floor of the Steen Library) or the AARC website at [www.sfasu.edu/aarc](http://www.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.

**Tentative Schedule:**

<table>
<thead>
<tr>
<th>Week</th>
<th>Dates</th>
<th>Topics</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8/28 – 9/1</td>
<td>Syllabus, Logic Symbols Part 1</td>
</tr>
<tr>
<td>2</td>
<td>9/4 – 9/8</td>
<td>Logic Symbols Part 2, Truth Values Part 1</td>
</tr>
<tr>
<td>3</td>
<td>9/11 – 9/15</td>
<td>Truth Values Part 2, Review for Exam 1</td>
</tr>
<tr>
<td>4</td>
<td>9/18 – 9/22</td>
<td>Exam 1 – Monday, September 18</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Sets and Subsets</td>
</tr>
<tr>
<td>6</td>
<td>10/2 – 10/6</td>
<td>Venn Diagrams Part 1, Venn Diagrams Part 2</td>
</tr>
<tr>
<td>7</td>
<td>10/9 – 10/13</td>
<td>Review for Exam 2, Exam 2 – Friday, October 13</td>
</tr>
<tr>
<td>8</td>
<td>10/16 – 10/20</td>
<td>Number Lines and Place Value</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Rounding and Comparing Decimals</td>
</tr>
<tr>
<td>9</td>
<td>10/23 – 10/27</td>
<td>Integer Operations</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fraction Operations</td>
</tr>
<tr>
<td>10</td>
<td>10/30 – 11/3</td>
<td>Ratios and Proportions, Order of Operations and Evaluating Formulas</td>
</tr>
<tr>
<td>11</td>
<td>10/6 – 11/10</td>
<td>Solving Simple Equations, Percents and Applications</td>
</tr>
<tr>
<td>12</td>
<td>11/13 – 11/17</td>
<td>Review for Exam 3</td>
</tr>
<tr>
<td></td>
<td>11/20 – 11/24</td>
<td>Thanksgiving Break</td>
</tr>
<tr>
<td>13</td>
<td>11/27 – 12/1</td>
<td>Measures of Central Tendency</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Evaluating Financial and Statistical Formulas</td>
</tr>
<tr>
<td>14</td>
<td>12/4 – 12/8</td>
<td>Review for Final Exam</td>
</tr>
<tr>
<td>15</td>
<td>12/11 – 12/15</td>
<td>Final Exam - Wednesday, December 13 – 10:30-12:30</td>
</tr>
</tbody>
</table>
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
• More with graphing and intercepts
• Slope and applications
• Graphing using the slope and y-intercept

15%

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

15%

• Factoring out common factors, factoring by grouping
• 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)

15%

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