



**MATH-0306-153CL**  
**Mathematical Foundations**  
**Spring 2024**  
**STEAM Building,**  
**Room 107 TTh & Room 102 F**  
**TTH 11:00-12:20 pm; F 11:00 – 11:50am**

**Instructor Information:** Theophilus Boye, [tboye@com.edu](mailto:tboye@com.edu), 409-933-8758

**Student hours:** MW: 11:00 – 12:30pm; TTh: 3:30 – 6:00pm;

**Office location:** STEAM 325-3

**Required Textbook/Materials:** Minimally, you are required to purchase the access code for MyLab Math to access the eText for the textbook and all course assignments. A hard copy of the textbook is recommended, but not required.

The textbook for this course is: Prealgebra, 8th edition, by Elayn Martin-Gay, Pearson Education, 2018.

**Textbook ISBN-13:** 9780134707648

**Course Description:** This course prepares students for college-level courses in either Statistical Reasoning or Contemporary Mathematics. Topics include numeracy with an emphasis on estimation and fluency with large numbers; evaluating expressions and formulas; rates, ratios, and proportions; percentages; solving equations; linear models; data interpretations, including graphs and tables; verbal, algebraic and graphical representations of functions; exponential models.

**Course requirements:**

*Homework Assignments (MyLab Math)*

*Quizzes (My Math Lab)*

*Four exams*

*Comprehensive final exam*

**Required Technology:** A calculator is needed for this course. A Texas Instruments TI30XIIS is recommended. TI-84 plus or higher or TI-Nspire graphing calculators are not permitted.

Internet capability is required to gain access to course materials and online assignments via MyLab Math software.

**Determination of Course Grade/Detailed Grading Formula:**

*The course grade will be determined in the following way:*

Comprehensive Final Exam	15%
Regular Exams	60%
MyLab Math Homework	15%
MyLab Math Quizzes	10%

## **Grading Scale:**

Grade A: Final Average is [89.5, 100]

Grade B: Final Average is [79.5, 89.5)

Grade C: Final Average is [69.5, 79.5)

Grade D: Final Average is [59.5, 69.5)

Grade F: Final Average is [0, 59.5)

**Late Work, Make-Up, and Extra-Credit Policy:** If you are unable to make a scheduled exam, you will be allowed to make up the exam outside of class provided you notify the instructor prior to the exam and have a legitimate reason for the absence. All makeup exams must be taken in the Testing Center by appointment. The late penalty for past due assignments is 20% of your grade. Extra credit assignments will not be available.

**Attendance Policy:** Attendance is required for all class meetings. When students are not actively participating (e.g., contributing to discussions and completing weekly online homework), the faculty member can initiate an instructor drop and, subsequently, the student will receive a **W** for the course.

**Communicating with your instructor:** ALL electronic communication with the instructor must be through your COM email. Due to FERPA restrictions, faculty cannot share any information about performance in the class through other electronic means.

**Email:** Include your **course & section** in the subject line when emailing.

**Academic Dishonesty:** Any incident of academic dishonesty will be dealt with in accordance with college policy and the Student Handbook. Academic dishonesty – such as cheating on exams is an extremely serious offense and will result in a **grade of zero** on that exam and the student will be referred to the Office of Student Conduct for the appropriate disciplinary action.

**Student Concerns:** If you have any questions or concerns about any aspect of this course, please contact me using the contact information previously provided. If, after discussing your concern with me, you continue to have questions, please contact Mr. Leslie Richardson, Chair of the Math Department, at 409-933-8329 or [lrichardson@com.edu](mailto:lrichardson@com.edu).

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## **Electronic Device Policies**

You may use your laptop or tablet for taking notes during lecture; however, that privilege will be lost if I find that you are using them for non-course-related reasons (e.g., news, social media, shopping).

All other electronic devices should be **silenced and hidden**. If there is an emergency and your phone must be on/visible, please inform me of this at the beginning of class.

## **Classroom Conduct Policy**

Arriving on time, staying the entire class period, eliminating distractions like cell phones, using appropriate language (no cursing), respecting your classmates and the instructor, and cleaning up after yourself are all expectations for students in the classroom. Please abide by these expectations so that the class setting is enjoyable for all students. Regarding cell phones, they should be turned off or set on airplane mode and in your backpack/purse (not on your desk).

It is extremely disruptive to the learning environment, so you will be asked to leave if it is a continuous problem. Infractions may result in an automatic withdrawal from the class. Cell phones cannot be used during tests or quizzes and refer to testing policies for additional information. Please notify me before class if you have an emergency that requires you to answer your phone during class. Take an emergency phone call outside of the classroom. For their safety, unattended minors of students are not permitted on campus while students are in class. In consideration of fellow classmate, please do not bring children to class

### **Testing Policy**

Prohibited devices include, but are not limited to:

- Cell phones; smart phones; smart watches
- Audio players/recorders, tablets, laptops, notebooks, or any other personal computing devices
- Cameras or any other photographic equipment
- Any devices, including digital watches, that can be used to record, transmit, receive, or play back audio, photographic, text, or video content

If your device makes a sound or is in your possession when the device goes off, you may be dismissed, and your score may be recorded as a zero.

**If you leave the classroom at any time during an exam, the exam must be submitted for grading.**

It is strongly advised that students take care of all personal business prior to entering the classroom to take an exam.

Week	Math 0306	Due Date @ 11:59PM	Math 1342	Due Date @ 11:59PM
1 Jan 16 – Jan 19	<i>Orientation</i> 1.2 Place Value, Names for Numbers & Reading Tables 1.3 Adding & Subtracting Whole Numbers and Perimeter 1.4 Rounding and Estimating 1.5 Multiplying Whole Numbers and Area 1.6 Dividing Whole Numbers 1.7 Exponents and Order of Operations 1.8 Introduction to Variables, Algebraic Expressions, and Equations <i>*There is a single Ch. 1 HW assignment for 1.2-1.8*</i>	Jan 23	<i>Orientation</i> 1.1 Introduction to the Practice of Statistics 1.2 Observational Studies versus Designed Experiments 1.3 Simple Random Sampling	Jan 23
2 Jan 22 – Jan 26	2.1 Introduction to Integers 2.2 Adding Integers 2.3 Subtracting Integers 2.4 Multiplying and Dividing Integers 2.5 Order of Operations 2.6 Solving Equations: Review of the Addition and Multiplication Properties <b>Quiz 1: Chapter 2</b>	Jan 30	1.4 Other Effective Sampling Methods 1.5 Bias in Sampling 1.6 The Design of Experiments 2.1 Organizing Qualitative Data	Jan 30
3 Jan 29 – Feb 2	8.1 Pictographs, Bar Graphs, Histograms, Line Graphs, and Introduction to Statistics 8.2 Circle Graphs  <i>*8.1 &amp; 8.2 online HW assignments only – this material is covered in 2.1 &amp; 2.2 in 1342*</i>  8.3 The Rectangular Coordinate System and Paired Data 8.4 Graphing Linear Equations in Two Variables	Feb 6	2.2 Organizing Quantitative Data: The Popular Displays 2.3 Additional Displays of Quantitative Data 2.4 Graphical Misrepresentations of Data  <b>Quiz 1 (1.1-1.6, 2.1-2.4) – SLO 1 and 2</b>	Feb 6
4 Feb 5 – Feb 9	8.5 Counting and Introduction to Probability <b>Review for Test 1</b>  <b>Test 1: Chapters 1, 2 and 8</b>  3.1 Simplifying Algebraic Expressions	<b>Test 1: Th – 2/8</b>	3.1 Measure of Central Tendency 3.2 Measures of Dispersion 3.3 Measures of Central Tendency and Dispersion from Grouped Data	Feb 13

Week	Math 0306	Due Date @ 11:59PM	Math 1342	Due Date @ 11:59PM
5 Feb 12 – Feb 16	3.2 Solving Equations: Review of the Addition and Multiplication Properties 3.3 Solving Linear Equations in One Variable 3.4 Linear Equations in One Variable and Problem Solving <b>Quiz 2: Chapter 3</b> 4.1 Introduction to Fractions and Mixed Numbers 4.2 Factors and Simplest Form 4.3 Multiplying and Dividing Fractions	Feb 20	3.3 Measures of Central Tendency and Dispersion from Grouped Data 3.4 Measures of Dispersion and Outliers 3.5 The Five-Number Summary Boxplots  <i>Review for Exam 1</i>	Feb 20
6 Feb 19 – Feb 23	4.4 Adding and Subtracting Like Fractions, Least Common Denominator, and Equivalent Fractions 4.5 Adding and Subtracting Unlike Fractions 4.7 Operations on Mixed Numbers 4.8 Solving Equations with Fractions <i>Review for Test 2</i>	Feb 27	<b>Exam 1 (Ch 1, 2, 3)</b> 4.1/4.2 Scatter Diagrams, Correlation, Coefficient of Determination, & Least Squares Regression  <b>Quiz 2 (4.1-4.2) – SLO 7</b>	Feb 27
7 Feb 26 – Mar 1	<b>Test 2: Chapters 3 and 4</b> 5.1 Introduction to Decimals 5.2 Adding and Subtracting Decimals 5.3 Multiplying Decimals and Circumference of a Circle 5.4 Dividing Decimals	<b>Test 2: T: 2/29  Mar 5</b>	5.1 Probability Rules 5.2 The Addition Rule and Complements- 5.3 Independence and the Multiplication Rule	Mar 5
8 Mar 4 – Mar 8  <b>Spring Break: 3/11-3/17</b>	5.5 Fractions, Decimals, and Order of Operations 5.6 Solving Equations Containing Decimals 5.7 Decimal Applications: Mean, Median, and Mode <i>*5.7 Online HW assignment only – Covered this topic in 3.1 in 1342*</i> <b>Quiz 3: Chapter 5</b> 6.1 Ratios and Rates 6.2 Proportions	Mar 19	5.4 Conditional Probability and the General Multiplication Rule 5.5 Counting Techniques  <b>Quiz 3 (5.1-5.5) – SLO 3 and 4</b>  6.1 Discrete Random Variables	Mar 19
9 Mar 18 – Mar 22	6.3 Proportions and Problem Solving <i>Review for Test 3</i> <b>Test 3: Chapters 5 and 6 – Th – 3/21</b>	Mar 26	6.1 Discrete Random Variables 6.2 The Binomial Probability Distribution  <i>Review for Exam 2</i>  7.1 Properties of Normal Distribution <i>*7.1 is on Exam 3*</i>	Mar 26

<b>Week</b>	<b>Math 0306</b>	<b>Due Date @ 11:59PM</b>	<b>Math 1342</b>	<b>Due Date @ 11:59PM</b>
<b>10</b> Mar 25 – Mar 29	7.1 Percents, Decimals, and Fractions 7.2 Solving Percent Problems with Equations 7.3 Solving Percent Problems with Proportions 7.4 Applications of Percent	April 2	<b>Exam 2 (Ch 4, 5 &amp; 6)</b>  7.1 Properties of Normal Distribution 7.2 Applications of Normal Distribution  <b>Quiz 4 (6.1, 6.2, 7.1, 7.2) – SLO 5</b>	<b>April 2</b>
<b>11</b> April 1 – April 5	7.5 Percent and Problem Solving: Sales Tax, Commission, and Discount 7.6 Percent and Problem Solving: Interest <b>Quiz 4: Chapter 7</b> 9.2 Perimeter-Th 9.3 Area, Volume	April 9	8.1 Distribution of the Sample Mean 8.2 Distribution of the Sample Proportion	April 9
<b>12</b> April 8 – April 12	9.4 Linear Measurement (US & Metric units of length) 9.5 Weight and Mass (US & Metric units of weight and mass) 9.6 Capacity (US & Metric units of volume) 9.7 Temperature and Conversions Between the U.S. and Metric Systems	April 16	9.1 Estimating a Population Proportion 9.2 Estimating a Population Mean  <b>Quiz 5 (9.1, 9.2) – SLO 6</b>  <i>Review for Exam 3</i>	April 16
<b>13</b> April 15 – April 19	<i>Review for Test 4</i>		<b>Exam 3 (Ch 7 &amp; 8)</b> 10.1 The Language of Hypothesis Testing-T	April 23
<b>14</b> April 22 – April 26	<b>Test 4: Chapters 7 and 9</b>  <i>Review for Final Exam</i>	April 25	10.2 Hypothesis Tests for a Population Proportion 10.3 Hypothesis Tests for a Population Mean 11.1 Inference about Two Population Proportions 11.2 Inference about Two Means: Dependent Samples	April 30
<b>15</b> April 29 – May 3	<b>Final Exam</b>		11.3 Inference about Two Means: Independent Samples-T (if time permits) <b>Quiz 6 (10.1-10.3, 11.1-11.3) – SLO 8</b> <i>Review for Exam 4</i> <b>Exam 4 (9 &amp; 10)</b> <i>Final Exam Review-</i>	May 5
<b>16</b> May 6 – May 10			<b>Final Exam</b>	<b>May 8</b>

**\*W-Day is April 22**

**\*\*Class ends on May 8**

**\*\*\*Calendar is subject to change**

## Institutional Policies and Guidelines

**Grade Appeal Process:** Concerns about the accuracy of grades should first be discussed with the instructor. A request for a change of grade is a formal request and must be made within six months of the grade assignment. Directions for filing an appeal can be found in the student handbook [https://www.com.edu/student-services/docs/Student\\_Handbook\\_2023-2024\\_v2.pdf](https://www.com.edu/student-services/docs/Student_Handbook_2023-2024_v2.pdf). *An appeal will not be considered because of general dissatisfaction with a grade, penalty, or outcome of a course. Disagreement with the instructor's professional judgment of the quality of the student's work and performance is also not an admissible basis for a grade appeal.*

**Academic Success & Support Services:** College of the Mainland is committed to providing students the necessary support and tools for success in their college careers. Support is offered through our Tutoring Services, Library, Counseling, and through Student Services. Please discuss any concerns with your faculty or an advisor.

**ADA Statement:** Any student with a documented disability needing academic accommodations is requested to contact Kimberly Lachney at 409-933-8919 or [klachney@com.edu](mailto:klachney@com.edu). The Office of Services for Students with Disabilities is located in the Student Success Center.

**Textbook Purchasing Statement:** A student attending College of the Mainland is not under any obligation to purchase a textbook from the college-affiliated bookstore. The same textbook may also be available from an independent retailer, including an online retailer.

**Withdrawal Policy:** Students may withdraw from this course for any reason prior to the last eligible day for a "W" grade. Before withdrawing students should speak with the instructor and consult an advisor. Students are permitted to withdraw only six times during their college career by state law. The last date to withdraw from the 1<sup>st</sup> 8-week session is February 28. The last date to withdraw from the 16-week session is April 22. The last date to withdraw for the 2<sup>nd</sup> 8-week session is May 1. The last date to withdraw for spring mini session is May 29.

**FN Grading:** The FN grade is issued in cases of *failure due to a lack of attendance*, as determined by the instructor. The FN grade may be issued for cases in which the student ceases or fails to attend class, submit assignments, or participate in required capacities, and for which the student has failed to withdraw. The issuing of the FN grade is at the discretion of the instructor. The last date of attendance should be documented for submission of an FN grade.

**Early Alert Program:** The Student Success Center at College of the Mainland has implemented an Early Alert Program because student success and retention are very important to us. I have been asked to refer students to the program throughout the semester if they are having difficulty completing assignments or have poor attendance. If you are referred to the Early Alert Program you will be contacted by someone in the Student Success Center who will schedule a meeting with you to see what assistance they can offer in order for you to meet your academic goals.

### Resources to Help with Stress:

If you are experiencing stress or anxiety about your daily living needs including food, housing or just feel you could benefit from free resources to help you through a difficult time, please click here <https://www.com.edu/community-resource-center/>. College of the Mainland has partnered with free community resources to help you stay on track with your schoolwork, by addressing life issues that get in the way of doing your best in school. All services are private and confidential. You may also contact the Dean of Students office at [deanofstudents@com.edu](mailto:deanofstudents@com.edu) or [communityresources@com.edu](mailto:communityresources@com.edu).