**WAYLAND BAPTIST UNIVERSITY**

**Virtual CAMPUS**

**SCHOOL OF MATHEMATICS & SCIENCES**

### **Wayland Mission Statement**:

Wayland Baptist University exists to educate students in an academically challenging, learning-focused and distinctively Christian environment for professional success and service to God and humankind.

### **Course Title and Number**:

MATH 1303-VC01; Mathematics for Liberal Arts

### **Term:** Spring 2023, Virtual Campus

### **Name of Instructor**: Dr. Charles Nelms

### **Cell Phone Number, Email Address**: 405-820-4575, nelmsc@wbu.edu

### **Office Hours**: Sunday thru Thursday 3:00-5:00, and by appointment

Please note that I am free most evenings and will respond to texts, calls, or emails until as late as 10:00 p.m. Do not hesitate to reach out to me at any time, I will respond as promptly as possible.

### **Catalog Description**:

Practical applications for mathematics with a goal of mathematical literacy. The course will focus on problem solving using critical thinking and concepts from algebra, geometry, and statistics. Topics will include logic, mathematics of finance, statistical reasoning, modeling with linear, quadratic, and exponential functions, and real-world applications of geometry.

### **Prerequisite**:

MATH 1300 (Intermediate Algebra) or Placement (equivalent to Math1304 placement)

**Required Textbook**: Using and Understanding Mathematics: A Quantitative Reasoning Approach. 7th Edition. Jeffrey Bennett and William Briggs. Pearson. 2015. (using MyMathLab online homework)

Important Note: Your eTextbook cost is included at registration. The book involves courseware through Pearson’s MyLab. You will access this site through Blackboard, and only through Blackboard.

### **Supplies**: Scientific Calculator

### **Course Outcome Competencies**:

1. Students will understand the basics of logic and set theory through the use of truth tables and Venn diagrams. They will be able to evaluate the validity of an argument.
2. Students will utilize algebraic techniques necessary for problem solving by modeling with linear, quadratic, and exponential functions.
3. Students will become consumers of statistical information through understanding of sources of data, measures of center and variation, graphical displays of data, and causation.
4. Students will understand and be able to calculate simple and compound interest, annuities, and amortizations as they apply to personal finance.
5. Students will measure and calculate geometrical properties of two and three-dimensional objects to solve practical problems.

### **Statement on Plagiarism and Academic Dishonesty**:

Wayland Baptist University observes a zero tolerance policy regarding academic dishonesty. Per university policy as described in the academic catalog, all cases of academic dishonesty will be reported and second offenses will result in suspension from the university.

### **Disability Statement**:

In compliance with the Americans with Disabilities Act of 1990 (ADA), it is the policy of Wayland Baptist University that no otherwise qualified person with a disability be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the university. The Coordinator of Counseling Services serves as the coordinator of students with a disability and should be contacted concerning accommodation requests at (806) 291-3765. Documentation of a disability must accompany any request for accommodations.

### **Course Requirements and Grading Criteria**:

Here are some VERY important things to keep in mind as you get underway in the course

1. The majority of the coursework will not be in Blackboard itself, but instead at MyMathLab. There will be a link in Blackboard, etextbook, where you will get your access code for MyMathLab from Vitalsource. You will receive this as part of the fee for registering for the course. Please use the MyMathLab link (right below the Assignments link) to link your Blackboard account with your MyMathLab account. You will have to set up a Pearson account the first time you do this, but afterwards you will be taken directly to your assignments. Only access MyMathLab through Blackboard.
2. As part of this course you will watch a series of lecture videos. These videos will be accessible from the Blackboard site, with links to them found via the assignments section.
3. Both the Midterm and the Final will be administered through MyLab Math. In addition to answering the questions online you will work out each problem on paper. The online portion of each test will be worth 40% of the grade for the exam. Once you have completed each test you will then need to take pictures/scans of your work and email them to me at nelmsc@wbu.edu within 15 minutes of submitting the test online. The work done on paper will be worth the remaining 60% of the grade for each test.

**Grading**:

25% Homework

25% Quizzes

50% Exams (Midterm and Final)

A: 90 – 100; B:  80 – 89; C:  70 – 79; D:  60 – 69; F: Below 60

Students shall have protection through orderly procedures against prejudices or capricious academic evaluation. A student who believes that he or she has not been held to realistic academic standards, just evaluation procedures, or appropriate grading, may appeal the final grade given in the course by using the student grade appeal process described in the Academic Catalog. Appeals may not be made for advanced placement examinations or course bypass examinations. Appeals are limited to the final course grade, which may be upheld, raised, or lowered at any stage of the appeal process. Any recommendation to lower a course grade must be submitted through the Executive Vice President/Provost to the Faculty Assembly Grade Appeals Committee for review and approval. The Faculty Assembly Grade Appeals Committee may instruct that the course grade be upheld, raised, or lowered to a more proper evaluation.

**Important Dates:**

* Last day to drop with a “W” is April 28
* Last day to drop with a “WP/WF” is May 12

### **Course Schedule (All times are for the Central Time zone, so plan accordingly)**:

**Week 1:** March 25 – March 31

Videos and discussions for Sections 1A-1D, 2A

Homework Exercises for Sections 1A-1D, 2A

Weekly quiz covering Section 1A-1D, 2A

Due Sunday at 11:59pm, March 31

**Week 2:** April 1 – April 7

Videos and discussions for Sections: 2B-2C, 3A, 3C, 3E

Homework Exercises for Sections: 2B-2C, 3A, 3C, 3E

Weekly quiz covering Sections: 2B-2C, 3A, 3C, 3E

Due Sunday at 11:59pm, April 7

**Week 3:**  April 8 – April 14

Videos and discussions for Sections 4B-4E

Homework Exercises for Sections 4B-4E

Weekly quiz covering Section 4A-4E

Due Sunday at 11:59pm, April 14

**Week 4**: April 15 – April 21

Videos and discussions for Sections: 5A-5B

Homework Exercises for Sections: 5A-5B

Weekly quiz covering Sections: 5A-5B

Due Sunday at 11:59pm, April 23

**Midterm Exam: See exam notes for description**

**(Covers Chapter 1 through Chapter 5)**

This must be completed between April 15 to April 24

**Week 5:** April 22 – April 28

Videos and discussions for Sections 5C, 5D, 6A, 6B

Homework Exercises for Sections 5C, 5D, 6A, 6B

Weekly quiz covering Sections 5C, 5D, 6A, 6B

Due Sunday at 11:59pm, April 29

**Week 6:**  April 29 – May 5

Videos and discussions for Sections 6D, 8A-8C

Homework Exercises for Sections 6D, 8A-8C

Weekly quiz covering Section 6D, 8A-8C

Due Sunday at 11:59pm, May 5

**Week 7:** May 6 – May 12

Videos and discussions for Sections 9A, 9B, 10A

Homework Exercises for Sections 9A, 9B, 10A

Weekly quiz covering Section 9A, 9B, 10A

Due Sunday at 11:59pm, May 12

**Week 8:** May 13 – May 18

Review for Final

No assignments

**Final Exam: Paper and Pencil Exam (Proctored)**

**(Covers Chapter 5, Chapter 6 and Chapters 8-10)**

This needs to be completed between May 13 and May 19.