WAYLAND BAPTIST UNIVERSITY

WBUOnline

**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.

The School of Mathematics and Sciences emphasizes a rigorous, ethical approach to the study of mathematics and science. We believe that success in these disciplines requires a broad base of content knowledge and the development of the critical thinking skills necessary for the ongoing acquisition, processing and communication of current subject matter. The activities of the School, both academic and professional, intentionally reflect the Lordship of Jesus Christ and His centrality to all of Creation.

COURSE NO. AND TITLE: MATH 1300-VC01 - Intermediate Algebra

TERM: Fall 2017, WBUOnline

NAME OF INSTRUCTOR: Dr. Emilia Moore

WBU EMAIL ADDRESS: Emilia.moore@wayland.wbu.edu

**Course Description:**

**Description:** This course develops skills in basic concepts of algebra, real numbers, linear equations and inequalities, polynomials, systems of equations and inequalities, and graphing and functions.

**Prerequisites:** This class is generally for students with some background in high school algebra (at least a semester). If you have not had any, ACAC MATH is strongly suggested. If you have (recently) had two years of high school algebra, take MATH 1304 (College Algebra).

**Required Resources:**

**Lecture Notes:** Lecture Notes for Intermediate Algebra by Dr. Scott Franklin

(These are available through the Wayland Bookstore or downloadable from Blackboard. If you choose to download the lecture notes, you will need to print them so you can fill them in as you watch the online lecture videos.)

**Student Access Pack:** MyMathLab Student Access Pack

**Supplies:** All students need to have a scientific calculator that has at least and functions, and the exponential function ().

**Optional Resource:**

**Textbook (hard copy):** INTERMEDIATE ALGEBRA FOR COLLEGE STUDENTS, 6th edition by Blitzer

***NOTE: The hard copy of the textbook is optional because the access code above will grant you access to an online copy of the textbook.***

**Assessment of Student Achievement:**

There are 4 components to the final grade in this course.

1. **Homework Exercises:** You have homework exercises that must be completed for each section that we cover in the course. You will complete those online through the MyMathLab Interface. When you login to MyMathLab you will be able to click on Homework and view your homework exercises.
2. **Weekly Quizzes:** By the end of each week of the course you will be required to complete an online quiz covering the sections from that week. The deadline for completing this quiz will be midnight on Sunday. You can take the quiz up to *three times* and your highest score will be counted. Each time you take the quiz, the questions will be randomly generated, but of the same type.
3. **Exams:** During the course, there will be two major exams: a Midterm and a Final. Each test will cover approximately half of the course. Both of these tests are to be taken **in person** at one of the external campuses or a testing center. They will be paper and pencil tests which will be mailed to your instructor for grading. They must be **proctored** by an approved representative of the University.
4. **Lecture Video and Notes:** You will be required to watch the videos for this course and completely fill in the lecture notes for each section. This will be verified at each of the proctored exams. You will be required to bring it with you to these tests, although you cannot use it while taking the exam.

**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.**

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.

**Assessment of Student Achievement: (cont.)**

Homework 20%

Weekly Quizzes 25%

Exams 50%

Lecture Video and Notes: 5%

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 Details

Here are a few VERY important details that you should make note of as you prepare to get the course underway:

1. The majority of the coursework will not be in Blackboard but instead at MyLab/Mastering (previously called CourseCompass) <http://pearsonmylabandmastering.com>. This is where the MyMathLab tools for homework and quizzes will be located.

You need to set up your student account at MyLab/Mastering before you begin any work in the course. You should have a Student Access Code and a Getting Started pack included with your textbook. When setting up your MyMathLab account follow the MyMathLab tab in Blackboard.

The first thing you'll need to do after setting up the account is to run the "Installation Wizard" and view "How to Enter Answers" tours and tip sheets for information about entering math notation.

2. As part of this course, you will watch the series of lecture videos and fill in the lecture notes. The proctor that you use for your midterm and final will verify that you have filled in the lecture note book. The videos and book are downloadable for the Blackboard site. However, you will definitely need a broadband internet connection if you expect to watch the videos online. And if you download the lecture notes, you will need to print them to fill them in. Your proctor for your midterm and final will confirm that you have filled them out so be sure to take them with you to the proctored exams.

3. You will need a proctor for the midterm and the final, which will both be pencil and paper exams (NOT ONLINE), taken in person. For more information on who qualifies as a proctor and how to get them accepted as a proctor by the Virtual Campus, visit the website:

<https://www.wbu.edu/wbu-online/current-students/proctored-exams.htm>

The deadline for securing a proctor for your midterm is **a week prior to the midterm exam*.*** Please make sure your paperwork is submitted to WBU Online (not your instructor) by this date.

Please email me with any questions you may have. Dr. Moore’s email: Emilia.moore@wayland.wbu.edu.

**Outline and Outcome Competencies:**

1. The student will be able to solve linear, absolute value, and polynomial equations.
2. The student will be able to solve simple and compound inequalities.
3. The student will be able to derive linear equations and to understand rate of change.
4. The student will be able to perform algebraic operations on polynomials, including factoring.
5. The student will be able to use systems of equations to model real world situations.
6. The student will be able to solve systems of equations using a variety of methods.
7. The student will develop logical reasoning skills.
8. The student will develop algebraic techniques necessary for problem-solving and mathematical modeling.

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

### Course Schedule

**Week 1: August 21 – August 27**

Videos and Notes for Sections 1.1 – 1.2

Homework Exercises Sections 1.1 – 1.2

Weekly Quiz covering Sections 1.1 – 1.2

**Due by 11:59 p.m. on Sunday, August 27.**

**Week 2: August 28 – September 3**

Videos and Notes for Sections 1.3 – 1.4

Homework Exercises 1.3 – 1.4

Weekly Quiz covering 1.3 – 1.4

**Due by 11:59 p.m. on Sunday, September 3.**

**Week 3: September 5 – September 10**

Videos and Notes for Sections 1.5 – 1.7

Homework Exercises 1.5 – 1.7

Weekly Quiz covering 1.5 – 1.7

**Due by 11:59 p.m. on Sunday, September 10.**

**Week 4: September 11 – September 17**

Videos and Notes for Sections 2.1 – 2.3

Homework Exercises 2.1 – 2.3

Weekly Quiz covering 2.1 – 2.3

**Due by 11:59 p.m. on Sunday, September 17.**

**Week 5: September 18 – September 24**

Videos and Notes for Sections 2.4 – 2.5

Homework Exercises 2.4 – 2.5

Weekly Quiz covering 2.4 – 2.5

**Due by 11:59 p.m. on Sunday, September 24.**

**Midterm Exam: Paper and Pencil exam (Proctored)**

**(Covers Chapters 1 – 2)
This needs to be completed between Monday, September 25 and Monday, October 2.**

**Week 6: September 25 – October 1**

Videos and Notes for Sections 3.1 – 3.3

Homework Exercises 3.1 – 3.3

Weekly Quiz covering 3.1 – 3.3

**Due by 11:59 p.m. on Sunday, October 1.**

**Week 7: October 2 – October 8**

Videos and Notes for Sections 4.1 – 4.2, 4.4

Homework Exercises 4.1 – 4.2, 4.4

Weekly Quiz covering 4.1 – 4.2, 4.4

**Due by 11:59 p.m. on Sunday, October 8.**

**Week 8: October 9 – October 15**

Videos and Notes for Sections 5.1 – 5.2

Homework Exercises 5.1 – 5.2

Weekly Quiz covering 5.1 – 5.2

**Due by 11:59 p.m. on Sunday, October 15.**

**Week 9: October 16 – October 22**

Videos and Notes for Sections 5.3 – 5.4

Homework Exercises 5.3 – 5.4

Weekly Quiz covering 5.3 – 5.4

**Due by 11:59 p.m. on Sunday, October 22.**

**Week 10: October 23 – October 29**

Videos and Notes for Sections 5.5, 5.7

Homework Exercises 5.5, 5.7

Weekly Quiz covering 5.5, 5.7

**Due by 11:59 p.m. on Sunday, October 29.**

**Week 11**

Review for Final

No assignments

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

**(Covers Chapters 3 – 5)**

**This needs to be completed between Monday, October 30 and Saturday, November 4.**