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 1304 VC02 - College Algebra

TERM: Winter 2017, WBUOnline

NAME OF INSTRUCTOR: Dr. Emilia Moore

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

**Course Description:**

**Description:** This course develops skills in rational expressions, radicals, complex numbers, graphs, second-degree equations in one or two variables, exponential and logarithmic functions, conic sections, sequences, series, and the binomial theorem.

**Prerequisites:** Two years of high school algebra or MATH 1300

**Required Resources:**

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

(Available through the Wayland Bookstore or downloadable from Blackboard)

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

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

**Optional Resource:**

**Textbook (hard copy):** INTERMEDIATE ALGEBRA FOR COLLEGE STUDENTS, 6th edition by Blitzer (ISBN: 0321758935)

***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 Course Interface (pearsonmylabandmastering.com). 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 (CST) on Sunday, each week. You can take the quiz up to *three times* and your highest score will be counted. Each time you take the test, 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.

**Course Outcome Competencies:**

1. The student will develop algebraic and quantitative skills useful in the study of other disciplines.
2. The student will be able to solve quadratic, rational, exponential, logarithmic, and radical equations.
3. The student will be able to perform algebraic operations on rational and radical expressions and on complex numbers.
4. The student will be able to identify various conic sections.
5. The student will be able to identify and find the sums of arithmetic and geometric sequences.
6. The student will develop algebraic techniques necessary for problem-solving and mathematical modeling.

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 MyMathLab (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 MyMathLab before you begin any work in the course. You should have a Student Access Code and a Getting Started pack included with your textbook. Please use the MyMathLab link in Blackboard (right below the Assignments link) to set up and link your MyMathLab account with your Blackboard account.

**COURSE ID FOR THIS TERM:** You do not need a course ID as long as you complete your registration through 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. As I mentioned, 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. Both the Midterm and the Final are paper and pencil tests and must be administered by a Wayland-approved proctor.

If you live in a city with a Wayland campus, you must take the tests on that campus, so you do not need to submit a proctor request form. However, you should contact the campus the week before your test to arrange a date and time for you to take the test, to find out where the test will be administered, and to give them the course number (MATH1304 **VC02**) and instructor name (Dr. E. Moore).

For the Plainview campus, contact the WBUOnline offices at 800-203-9048.

For external campuses, see the listing at <http://www.wbu.edu/about_wayland/campus_locations/> for contact information.

If you cannot take the tests on a Wayland campus, you must have your proctor approved by Wayland before they can administer the tests. The proctor must be approved every term (but only once per term) even if they have proctored tests for Wayland in past terms. Commonly used proctors are librarians holding a Master of Library Sciences, authorized employees at U.S. Military Education centers, and college testing centers (like Sylvan Learning). See the proctor request form for more details.

The proctor request form is located at <https://www.wbu.edu/wbu-online/current-students/proctored-exams.htm> Once the form is filled out, the proctor will receive an email requesting they provide certain information for verification. When the information has been provided, the Virtual Campus will approve or deny the request and will notify both the student and the proctor by email. **This entire process must be completed at least a week before the Midterm**. Do not forget to contact the proctor the week before the test to arrange a date and time and location (and to let them know the course number and instructor name).
Please email me with any questions you may have: Dr. Moore's email: Emilia.moore@wayland.wbu.edu.

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

**Week 1: November 13 – November 19**

Videos and Notes for Ch. 5 and Sections 6.1 – 6.2

Homework Exercises Ch. 5 and Sections 6.1 – 6.2

Weekly Quiz covering Ch. 5 and Sections 6.1 – 6.2

**Due by Sunday at 11:59 p.m., November 19.**

**Week 2: November 27 – December 3**

Videos and Notes for Sections 6.3 – 6.4, 6.6

Homework Exercises 6.3 – 6.4, 6.6

Weekly Quiz covering 6.3 – 6.4, 6.6

**Due by Sunday at 11:59 p.m., December 3.**

**Week 3: December 4 – December 10**

Videos and Notes for Sections 6.7, 6.8, 7.1

Homework Exercises 6.7, 6.8, 7.1

Weekly Quiz covering 6.7, 6.8, 7.1

**Due by Sunday at 11:59 p.m., December 10.**

**Week 4: December 11 – December 17**

Videos and Notes for Sections 7.2 – 7.4

Homework Exercises 7.2 – 7.4

Weekly Quiz covering 7.2 – 7.4

**Due by Sunday at 11:59 p.m., December 17.**

**Week 5: January 1 – January 7**

Videos and Notes for Sections 7.5 – 7.7

Homework Exercises 7.5 – 7.7

Weekly Quiz covering 7.5 – 7.7

**Due by Sunday at 11:59 p.m., January 7.**

**Week 6: January 8 – January 14**

Videos and Notes for Sections 8.1 – 8.3, 8.5

Homework Exercises 8.1 – 8.3, 8.5

Weekly Quiz covering 8.1 – 8.3, 8.5

**Due by Sunday at 11:59 p.m., January 14.**

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

**(Covers Chapters 6 – 8)
This needs to be completed between January 16 and January 22.**

**Week 7: January 16 – January 21**

Videos and Notes for Sections 9.1 – 9.2

Homework Exercises 9.1 – 9.2

Weekly Quiz covering 9.1 – 9.2

**Due by Sunday at 11:59 p.m., January 21.**

**Week 8: January 22 – January 28**

Videos and Notes for Sections 9.3 - 9.5

Homework Exercises 9.3 - 9.5

Weekly Quiz covering 9.3 - 9.5

**Due by Sunday at 11:59 p.m., January 28.**

**Week 9: January 29 – February 4**

Videos and Notes for Sections 10.1 – 10.4

Homework Exercises 10.1 – 10.4

Weekly Quiz covering 10.1 – 10.4

**Due by Sunday at 11:59 p.m., February 4.**

**Week 10: February 5 – February 11**

Videos and Notes for Sections 11.1 – 11.4

Homework Exercises 11.1 – 11.4

Weekly Quiz covering 11.1 – 11.4

**Due by Sunday at 11:59 p.m., February 11.**

**Week 11**

Review for Final

No assignments

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

**(Covers Chapters 9 – 11)**

**This needs to be completed between February 12 and February 17.**