



Course ID: franklin58656

Instructor:

Dr. Scott Franklin

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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 Kit (ISBN: 0-13-147894-X)

Supplies: All students need to have a scientific calculator that has at least $\log x$ and $\ln x$ functions, and the exponential function (e^x).

Optional Resource:

Textbook (hard copy): INTERMEDIATE ALGEBRA FOR COLLEGE STUDENTS, 5th edition by Blitzer (ISBN: 0-13-600762-7)

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. Instructions for using MyMathLab are included in your textbook. When you login to CourseCompass/MyMathLab you will be able to click on Homework and view your homework exercises. (see attachment)
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, 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 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.
5. **Discussion Board Writing Exercises:** Each week, you will be required to respond to a Discussion Board question. These writing exercises are designed to have you explain in your own words some of the mathematical concepts that we covering. In addition, you will be required to respond to at least two other students on the discussion board each week.

Assessment of Student Achievement: (cont.)

Homework	20%
Weekly Quizzes	30%
Exams	30%
Lecture Video and Notes:	10%
Discussion Board:	10%

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

Outline and Outcome Competencies:

To understand and apply the following concepts:

Linear Equations	Term, Coefficient, Degree Like and Unlike Terms, Simplification Solving Linear Equations Mathematical Models, Translating from Words to Formulas
Sets	Variable, Constant, Algebraic Expressions Sets, Elements, Null Set Real, Natural, Whole, Rational, and Irrational Numbers, Integers Subset, Interaction, Union
Properties of Real Numbers	Double Negatives, Absolute Value Commutative, Associative, Distributive, Identity, Inverse Order of Operations Roots and Powers Scientific Notation
Graphs	Quadrants Plotting Points Graphing Functions
Functions	Relation, Function, Domain, Range Linear Functions, Intercepts, Slope Standard Form, Slope-Intercept Form, Point-Slope Form Parallel and Perpendicular Linear Functions Adding, Subtracting, Multiplying, and Dividing Functions Graphing Linear Inequalities
Linear Inequalities	Dividing and Multiplying by Negative Numbers Number Line, Interval Notation, Solution Set Compound Inequalities Absolute Values Systems of Linear Equalities
Systems of Linear Equations	No Solutions, Infinite Solutions, One Solution Solving by Graphing, Substitution, Elimination Three-Variable Problems
Polynomials	Degree, Leading Term, Leading Coefficient Adding, Subtracting, and Multiplying Polynomials, FOIL Factoring, Greatest Common Factor, Grouping Solving Polynomial Equations Special Factoring Formulas

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

Course Schedule

Week 1: May 26 – June 1

Videos and Notes for Sections 1.1 – 1.2
Homework Exercises Sections 1.1 – 1.2
Weekly Quiz covering Sections 1.1 – 1.2
Discussion Board Question #1

Due by 5:00 p.m. on Monday, June 1.

Week 2: June 2 – June 8

Videos and Notes for Sections 1.3 – 1.4
Homework Exercises 1.3 – 1.4
Weekly Quiz covering 1.3 – 1.4
Discussion Board Question #2

Due by 5:00 p.m. on Monday, June 8.

Week 3: June 9 – June 15

Videos and Notes for Sections 1.5 – 1.7
Homework Exercises 1.5 – 1.7
Weekly Quiz covering 1.5 – 1.7
Discussion Board Question #3

Due by 5:00 p.m. on Monday, June 15.

Week 4: June 16 – June 22

Videos and Notes for Sections 2.1 – 2.3
Homework Exercises 2.1 – 2.3
Weekly Quiz covering 2.1 – 2.3
Discussion Board Question #4

Due by 5:00 p.m. on Monday, June 22.

Week 5: June 23 – June 29

Videos and Notes for Sections 2.4 – 2.5
Homework Exercises 2.4 – 2.5
Weekly Quiz covering 2.4 – 2.5
Discussion Board Question #5

Due by 5:00 p.m. on Monday, June 29.

Midterm Exam: Paper and Pencil exam (Proctored) (Covers Chapters 1 – 2)

**This needs to be completed between Monday, June 29
and Monday, July 6.**

Week 6: June 30 – July 6

Videos and Notes for Sections 3.1 – 3.3
Homework Exercises 3.1 – 3.3
Weekly Quiz covering 3.1 – 3.3
Discussion Board Question #6

Due by 5:00 p.m. on Monday, July 6.

Week 7: July 7 – July 13

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
Discussion Board Question #7

Due by 5:00 p.m. on Monday, July 13.

Week 8: July 14 – July 20

Videos and Notes for Sections 5.1 – 5.2
Homework Exercises 5.1 – 5.2
Weekly Quiz covering 5.1 – 5.2
Discussion Board Question #8

Due by 5:00 p.m. on Monday, July 20.

Week 9: July 21 – July 27

Videos and Notes for Sections 5.3 – 5.4
Homework Exercises 5.3 – 5.4
Weekly Quiz covering 5.3 – 5.4
Discussion Board Question #9

Due by 5:00 p.m. on Monday, July 27.

Week 10: July 28 – August 3

Videos and Notes for Sections 5.5, 5.7
Homework Exercises 5.5, 5.7
Weekly Quiz covering 5.5, 5.7
Discussion Board Question #10

Due by 5:00 p.m. on Monday, August 3.

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, August
3 and Saturday, August 8.**

It is university policy that no otherwise qualified disabled person be excluded from participation in, be denied the benefits of, or be subject to discrimination under any educational program or activity in the University. Students should inform the instructor of existing disabilities at the first class meeting

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 CourseCompass (<http://www.coursecompass.com>). This is where the MyMathLab tools for homework and quizzes will be located.

You need to set up your student account at CourseCompass 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 account you will also need the course ID.

COURSE ID FOR WINTER TERM: franklin58656

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:

http://www.wbu.edu/academics/online_programs/works/Proctorform/ProctorRequest.htm

The deadline for securing a proctor for your midterm is **June 15**. Please make sure your paperwork is submitted to the Virtual Campus (not your instructor) by this date.

Please email me with any questions you may have: Dr. Franklin's email: franklins@wbu.edu.