



Syllabus

15800 Calvary Rd
Kansas City, MO 64147

COURSE: MA110 N Intermediate Algebra
CREDIT: 3 Semester Hours
SEMESTER: Spring 2023 (Cycles 4–5)
INSTRUCTOR: Michael Porter
CONTACT INFO: E-mail: michael.porter@calvary.edu
MEETING TIME: Online

Algebra is an incredible tool for solving problems in everyday life, for developing analytical reasoning, and provides a foundation for additional study in mathematics, science, and other areas in liberal arts. In addition, mathematics gives us greater appreciation for God as it is in many ways the “language” of His creation.

I. COURSE DESCRIPTION:

MA110 (3 credit hours) An introduction to the concepts of intermediate algebra. Topics will include functions, linear equations, inequalities, polynomials, factoring, rational expressions, radicals, quadratic equations, exponents and logarithmic functions, conic sections, sequences, and series from a biblical worldview.

II. COURSE OBJECTIVES:

A. General competencies to be achieved. The student will:

- 1) Demonstrate an understanding of the fundamental concepts of intermediate algebra from a biblical worldview.
 - a. Program Objectives 1 and 5.
 - b. Assessments – chapter review questions and exams.

B. Specific competencies to be achieved. The student will:

- 1) Demonstrate the ability to apply the concepts of intermediate algebra to real-world applications.
 - a. Program Objectives 1 and 5.
 - b. Assessments – chapter review questions and exams.
- 2) Read literature covering the biblical worldview of intermediate algebra and demonstrate your understanding of these concepts by reporting on the literature clearly and concisely.
 - a. Program Objectives 2, 3, and 4.
 - b. Assessments – Creation apologetics essays.

III. REQUIREMENTS - All students will be expected to:

- Participate frequently and make regular progress.
- Complete reading assignments, homework, essays, and exams on schedule.

Our Mission: "...to prepare Christians to live and serve in the church and in the world according to the Biblical worldview."

IV. METHODS

- A. LECTURES:** Lectures will consist of material from the book and additional material from a variety of sources. Lectures will be posted on Canvas and consist of material from the book and additional material. Students should take notes as the homework questions will be directly related to the lectures.
- B. READING AND HOMEWORK QUESTIONS:** Not every topic in your textbook will be addressed. Emphasis will be placed on the most important concepts and practical applications. It is imperative that you complete the homework problems to understand the material and to do well on tests. Homework assignments will be submitted using the MyLab Math software.
- C. TESTS:** Questions used for the regular exams will be taken from the homework, possibly with minor modifications. Test questions for the comprehensive portion of the final will be taken from the regular tests and new material covered since the last regular exam. Exams will be taken using the MyLab Math software. Students may not use the internet or any other source of help. Phones and watches must be put away before taking the test.

Calvary University uses ProctorU test proctoring service for online students. Costs for ProctorU exams are listed below and are payable to ProctorU at the time of the test. Students must have a webcam (internal or external) and a government picture ID (such as a driver's license).

- 60 minutes or less - \$8
- 61 – 120 minutes - \$10
- 121 – 180 minutes - \$12

- D. BIBLICAL WORLDVIEW ESSAYS:** The purpose of this portion of the class is to develop your ability to analyze the complex issues associated with the debate over creation and evolution from a biblical worldview and to learn that you can defend your faith (1 Peter 3:15) using science. You will read articles or watch videos and then prepare essays that demonstrate your understanding of the topics. The topics include such things as the nature of science, the origin of evolutionary deception, ways to recognize evolutionary deception, and a review of some of the key biological science issues associated with the debate.

Essays must follow the APA style according to the Publication Manual of the American Psychological Association, 6th edition except as noted in this paragraph. Essays should be around one-half page, single spaced, using Times New Roman 12 font. Essays should not be longer than one page. Do not include a title page or a reference page. Put a descriptive title and your name and date at the top of the page. Include the reference after the bottom of the essay. You will be graded on content and understanding of the topics. Your writing should be clear and concise. Proper writing style including clarity, grammar, and punctuation will be considered during grading. Do not use first person. Discuss what the article or video said and means, not what you think about it. Make sure you use quotation marks as needed.

- E. LATE HOMEWORK, ESSAYS AND TESTS:** Grades for late homework and essays will be reduced for each day that they are late. Assignments that are more than one week late will not be

accepted and will receive no credit. Tests cannot be taken late unless there are significant extenuating circumstances.

F. HOW TO GET HELP:

Feel free to contact me via email or phone (see email address and phone number above).

The Clark Academic Center (learning@calvary.edu) is dedicated to providing free academic assistance for Calvary University students. Student tutors aid with all facets of the writing process, tutor in various subject areas, prepare students for exams and facilitate tests. Please take advantage of this service.

Plagiarism is defined as copying any part of a book or paper without identifying the author. This also includes taking another person's ideas and presenting them as your own.

Students with disabilities have the responsibility of informing the Accommodations Support Coordinator (aso@calvary.edu) of any disabling condition that may require support.

V. GRADING See grading scale in the university catalog.

Chapter Review Questions	20%
Essays	10%
Regular Exams	55%
Final Examination (comprehensive)	15%

VI. MATERIALS – Required

A. MyLab Math Software and eText

MyLab Math Software: It is **required** that you purchase access to the MyLab Math software and eText. ISBN-13: 9780134180694

This is required to complete the homework and tests. The cost is approximately \$105. It will also allow access to many on-line helps that are useful for learning this material. **I will post detailed instructions on how to purchase access to the software on Canvas. Do not purchase the software without first reading this!**

B. The Bible

The Bible is a required textbook in every course at Calvary University. To facilitate academic level study, students are required to use for assignments and research an English translation or version of the Bible based on formal equivalence (meaning that the translation is generally word-for-word from the original languages), including any of the following: New American Standard (NASB, English Standard Version (ESV), New King James (NKJV), or King James (KJV). Other translations and versions based on dynamic equivalence (paraphrases, and thought-for-thought translations like NLT and NIV) may be used as supplemental sources. Please ask the professor if you have questions about a particular translation or version.

VII. MATERIALS - Optional

Textbook:

Intermediate Algebra (7th Edition)

Author: Robert F. Blitzer

ISBN-13: 9780134178943

Pearson, 2017

The eText comes with the software, but will not be available after the class is over. If you want a hard copy of your own, consider purchasing a used version on the internet (typically around \$40). New versions are around \$230.

Graphing Calculator or computer software:

Having the ability to visualize equations with a calculator or computer software is very beneficial, but not required. There is no need to purchase a calculator as there are FREE software options on the internet that do the same thing.

VIII. TENTATIVE CLASS SCHEDULE:

Any changes to the schedule will be posted on Canvas.

LECTURE TOPIC(S)	CHAPTER	WEEKS	ASSIGNMENTS
Algebra, Mathematical Models, and Problem Solving	1	1	HW 1
Functions and Linear Functions	2	2	HW 2
Systems of Linear Equations	3	3	HW 3
Inequalities and Problem Solving	4	4	HW 4, TEST 1 (Chapter 1 & 2)
Polynomials, Polynomial Functions, and Factoring	5	5	HW 5, Discussion 1
Polynomials, Polynomial Functions, and Factoring	5	6	HW 6, TEST 2 (Chapter 3)
Rational Expressions, Functions, and Equations	6	7	HW 7

Rational Expressions, Functions, and Equations	6	8	HW 8, TEST 3 (Chapters 4 & 5)
Radicals, Radical Functions, and Rational Exponents	7	9	HW 9, TEST 4 (Chapters 6 & 7)
Quadratic Equations and Functions	8	10	HW 10
Quadratic Equations and Functions	8	11	HW 11, Discussion 2
Exponents and Logarithmic Functions	9		HW 12, Discussion 3
		12	
Exponents and Logarithmic Functions	9	13	HW 13, TEST 5 (Chapters 8 & 9)
Conic Sections and Systems of Nonlinear Equations	10	14	HW 14
Conic Sections and Systems of Nonlinear Equations	10	15	HW 15, Discussion 4
Sequences, Series, and the Binomial Theorem	11	16	HW 16, Final Exam (Chapters 10, 11 and review)

ProctorU Addendum

Calvary University uses ProctorU test proctoring service. ProctorU is a live online proctoring service that allows you to take your exam from the comfort of your home. ProctorU is available 24/7, however, **you will need to schedule your proctoring session at least 72 hours in advance to avoid any on-demand scheduling fees.** Creating a ProctorU account is simple. You can do so by going to <https://go.proctoru.com/students/users/new?institution=2045>.

Students must read all information and comply with all directions below to be successful for their proctored exam experience. Calvary University hopes that students will have a smooth experience, and to decrease student anxiety and increase success, please use this guide to help you plan for your test. Please note that, per ProctorU, there will be penalties for students who miss their testing window. Technical trouble will not be an excuse for missing the window. Therefore, pay attention to all details within this guide, and all links included.

System Requirements: Please see the information below supplied by ProctorU for system requirements. If your computer does not have these capabilities, please consider borrowing a computer as you will still be required to complete the exam using the live proctor system with ProctorU. Please note that you will not be able to take your exam(s) in the Calvary University Library due to the activity that will be picked up in a public place.

In order to use ProctorU, you will need a high-speed internet connection, a webcam (internal or external), a Windows or Apple Operating System, and a government issued photo ID. ProctorU recommends that you visit <https://test-it-out.proctoru.com/> prior to your proctoring session to test your equipment. They recommend you click on the button that says “connect to a live person” to fully test out your equipment. If using Firefox, please make sure that you are using the current version of your Firefox browser and have downloaded the ProctorU extension available at <https://www.proctoru.com/firefox>.

Type	Minimum	Recommended	Calvary University Minimum
Web Camera	640×480 resolution	1280×720 resolution	1280×720 resolution
PC Users	Windows Vista	Windows 10 (10 S is not supported)	same
Mac Users	OS X 10.5 or higher	OS X 10.13 High Sierra	same
Internet Download Speed	.768 Mbps	1.5 Mbps	3 Mbps
Internet Upload Speed	.384 Mbps	1 Mbps	2 Mbps
RAM	1024 MB	2 GB	same

Ports	1935, 843, 80, 443, 61613, UDP/TCP	1935, 843, 80, 443, 61613, UDP/TCP	same
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- Desktop computer or laptop (not a tablet, Chromebook or cell phone).
- Webcam and microphone (built-in or external) – test your webcam at <https://test.webrtc.org/>
- Connection to network with sufficient internet speed: at least 3 Mbps download speed and 2 Mbps upload – test internet speed at www.speedtest.net
- Operating systems: Windows Vista or newer, Mac OS X 10.5 – or newer
- Browser with pop-up blocker disabled: Google Chrome v39 or later, Mozilla Firefox v34 or later.

Additionally, please visit and review the test-taker resource center by going to <https://www.proctoru.com/proctoru-live-resource-center>. You should expect the startup process with the proctor to take about 10-15 minutes. However, this time will not affect your exam time. Please feel free to direct any questions to the student support team via the live chat within your account.

*****If you have any questions or concerns, contact Proctor U’s technical support team 24/7 via their live chat support at <https://www.proctoru.com/contact-us>**

Costs for ProctorU exams are listed below and are payable to ProctorU at the time of the test. These costs assume that a student will schedule their exam at least 72 hours in advance of the exam start time:

- 60 minutes or less - \$8
- 61 – 120 minutes - \$10
- 121 – 180 minutes - \$12

For those not scheduling an exam at least 72 hours in advance, late scheduling charges are added in addition to the above fee structure. There are two options for late scheduling:

- “Take It Soon” allows a test to be scheduled less than 72 hours but more than 24 hours before the desired start time. This option includes an additional fee of \$8.00. (Total cost for a 60 minute exam scheduled as “Take It Soon” would be \$16.)
- “Take It Now” allows a test to be taken on-demand with no appointment needed. This option includes an additional fee of \$12.00. (Total cost for a 60 minute exam scheduled as “Take It Now” would be \$20.)

These options are for the convenience of the examinee. Any charges applicable to the examinee must be paid with a credit or debit card. The test taker will be required to enter payment information on a secure page connected to a third-party card processor. The page is encrypted and secure and ProctorU does not see or store any credit card data.

Examinees will be required to re-enter payment information each time new charges are incurred.