

C O U R S E

S Y L L A B U S



MATH 100BC

Accelerated Algebra

SPRING 2022

In Person: M-F 12PM-12:PM

Instructor Information

Instructor: Amanda von Jentzen ☺

E-mail: amanda.vonjentzen@cwu.edu

Office Hours: Samuelson 228H Tu-F, 11am-12pm

Instructor Communication

The best way to reach me is by sending an email.

Typically, you can expect to have a response by 5pm if you email me during the day. If you send your email after 3pm, you can expect an email first thing the next morning. If you email over the weekend, please allow until midday on Monday for a response.

Preparation

Prerequisites & Requirements

Prerequisite: ALEKS score of 30-45 and planned major on the STEM or Business pathway.

Required Materials

Math 100BC Course Pack

Graphing Calculator (T183-84 preferred) ***Note: Cell phones will not be allowed on exams.*

Recommended Materials

One 80-100page spiral or hard-bound notebook with graph or lined paper for note taking & tests

Course Details

Course Description

This accelerated course is designed to provide students with the algebra, problem solving, and academic skills necessary to be successful in a college-level pre-calculus course. This course will emphasize appropriate use of the graphing calculator as a mathematical tool. Credits will not be allowed toward meeting bachelor's degree requirements.

Math Mission Statement

In support of liberal education, scientific careers, teacher preparation, and actuarial science, the mathematics department prepares students for quantitative and symbolic reasoning and advanced mathematical skills through general education, service, major and graduate programs.

Course Rationale

This course reinforces concepts of Algebraic skills and concepts. Modeling through numerical, graphical and traditional algebraic approaches will be used to give students an understanding of these concepts. An inquiry based-approach will be used to understand how the concepts of algebra make sense, connect, and are applied in real life situations. This type of application and understanding is meant to prepare students for their future math classes and field of study.

Course Details

Math 100BC is a 100 level, developmental course, which satisfies prerequisite requirements to move into college level courses. This is a non credit-bearing course, meaning credits are not earned towards a degree, it simply satisfies this pre-requisite requirement. In addition, the grade from this course is not factored into student GPA. Successful completion of this course with a C or higher will earn move into Math 152 or an equivalent QR course. Successful completion of this course with an A will earn move into Math 153.

Standards (Learner Outcome):

Upon successful completion of this course, students will show mastery of the following standards:

Standard 1: Fractions

Standard 2: Order of Operations

Standard 3: Inequalities & Systems of Inequalities

Standard 4: Set Notation & Interval Notation

Standard 5: Linear Equations

Standard 6: Systems of Equations

Standard 7: Properties of Exponents

Standard 8: Exponential Equations

Standard 9: Polynomials

Standard 10: Quadratic Equations

Standard 11: Solving Quadratics with Quadratic Formula

Standard 12: Factoring Methods (basic)

Standard 13: Factoring Methods (advanced)

Standard 14: Library of Functions (Throughout)

Standard 15: Properties of a Function

Standard 16: Transformations

Standard 17: Rational Functions (Domain & Simplify)

Standard 18: Solving Rational Equations

Standard 19: Radicals (simplifying)

Standard 20: Radicals (operations & equations)

Course Expectations/Policies

Teacher Expectations

- *Be on time for each class session (log in a couple minutes before the start of class)
- *Be prepared (have necessary materials, complete homework and assignments)
- *Be present (show active listening, focus on class happenings, keep cell phones away)
- *Be active (participate in discussions and activities, ask questions)
- *Be your best (put forth your best effort, ask if unsure, try, try, try)
- *Be respectful (treat others as you want to be treated in discussions, projects, presentations, question & answer sessions)

Attendance

You are expected to attend every session of the class. This course is a real time, synchronous course, meaning that we will hold daily class sessions. Your scores and grades will reflect your understanding, which is developed and strengthened through consistent work in class sessions, participation in discussions, and the effort that is put into assignments, projects and tests. If you have to be absent for an emergency, please contact me at the earliest possible time. *The last day to add/drop the class is April 4th, 2022.*

Academic Dishonesty

Students are expected to adhere to university student code of conduct regarding academic honesty. Any student who submits work that is suspected to be a product of academic dishonesty will have the opportunity to meet with the instructor to discuss the suspicion and confirm or deny the allegation. A formal Behavior of Concern report will be submitted to the Office of Student Rights and Responsibilities. In addition, depending on the severity of the allegation, a failing grade could be issued for either the assignment or the course.

Class Participation

Our class session consists of in person sessions

During the class sessions, it is expected that you will participate in the lessons, ask questions and share your ideas and thoughts.

- In some cases, I will call on students to answer questions. In times like this, it is always ok to respond with “I’m not sure” if you are not certain. I may ask additional questions to assist in finding out what you are thinking.
- If the lesson is moving too quickly, please inform me.
- There will be times when we begin a topic that I will ask what you think makes logical sense. At times like this, you should think about what you already know about the concept and make predictions based on what you already know.
- During partner or group activities, it is expected that you are contributing and staying on task.

Diversity

Central Washington University prides itself on the diversity of students who attend the university. Throughout the course, you will have the opportunity to work with students who have similarities and differences to you. It is important that you take every opportunity to embrace students who are similar to you and those who are different. We can learn a lot from each other if we take every opportunity to celebrate what makes us unique. It is expected that you will treat all students, teachers, and tutors with respect and enter into group situations and tasks with an open mind. No student will be discriminated against on the basis of race, ethnicity, age, creed, religion, gender, sexual orientation, marital status, or political ideology.

Advice & Support

Homework Advice

Homework is assigned to you for each standard so you have practice to master concepts and help you to retain important information and make connections between concepts and ideas we discuss in class. You will be successful if you attend class consistently, take notes and begin your homework on the day that we start working on the standard. Doing a little every day in manageable pieces, will help you to build good habits and recognize difficulties you have early on. You might find that you benefit from talking through the material with one or more classmates. If this is the case, you might consider forming a study group. If you regularly participate in a study group, make sure you understand and can complete the content independently because your study group will not work with you on tests.

“I’m having trouble with...”

There may come a time in this or other classes where you find yourself stuck and struggling to understand the material. Note that this is something that happens to everyone, and when it happens to you, you have several options:

- Ask a classmate or friend
- Attend PALS (Peer Assisted Learning) Online tutoring sessions
- Make an appointment with the ASC Math Center’s Online Tutoring
- Come to my office during virtual office hours for assistance

Student Support

Central Washington University has many resources to help you and enhance your experience here, while looking out for your well-being and aiding in your success. Some examples of available resources: Math Center, Writing Center, Academic Coaching, Wellness Center, Student Health Center, Disability Services, Counseling Services, Employment Services, Registrar, Information Services, and many more. A complete list of resources is available at [this website](#).

Testing

Standard Tests

Each standard concludes with a test you will take to show mastery of the content. Due to time constraints, we usually test on more than one standard on testing days.

Standard tests will be made up mostly of items from the current standard. However, there will be some review items from previous standards.

You will be required to show your work on EVERY ITEM, clearly organizing your work. This is the proof for your solutions.

*To pass a standard test, you need a score of **80% or higher**.*

Retaking a Standard Test

If you need to retake a standard test, you will retake the entire test. You may retake each standard only ONCE so you will need to make sure you are prepared.

Prior to retaking the test, you **must** attend a tutoring session and go through the content with a tutor. In this session, you must correct ALL missed items on a clean paper, showing all steps to the correct solution. In addition, you will need to complete the standard “practice” section in the course pack. *You will be able to retake the test the day after you have attended the tutoring session.*

RETAKES MUST BE COMPLETED BY FRIDAY OF THE WEEK THEY ARE ORIGINALLY GIVEN.. It is important that you adhere to these deadlines if you wish to retake the tests.

Preparing to Retake a Standard Test

If you need to retake a standard test, you will follow these steps to ensure your success.

1. Review the test to see what you missed, and analyze your items and see where the mistakes are.
2. Attend a tutoring session. You **MUST** have your tutor complete the retake slip.
3. Solve each missed item step by step on a new piece of paper. The solution must all be correct.
4. Complete ALL practice items in the course pack.
5. Bring your course pack, original test, corrected items and retake slip to my office for a test retake.

Grading Information

Grading

Grades will be based on specified academic standards. Students who successfully complete this course will show mastery of a set of 20 mathematical concepts called “standards”. There are 20 standards that will be taught and assessed in this course.

Coursework Feedback

- Homework is automatically graded by the MyOpenMath system and entered into the grade book as you work.
- Standard Tests, discussions and other class work will be graded and entered into the grade book within 2 business days of the due date.

Passing Grades

Passing grades will be based on three criteria:

1. 80% completion of assigned homework and class work
2. 80% attendance in class
3. Completion of at least 15 standards

Grading Scale

Number of Standards Met	Grade
19-20	A *Entry into Math 153*
17-18	A- *Entry into Math 152*
16	B *Entry into Math 152*
15	C *Entry into Math 152*
12-14	D
0-11	F

****SUCCESSFUL COMPLETION****

To advance to future courses, you must earn a C or better in the course work.

- Mastery of 15-18 standards will advance you into Math 152, though with the structure of the course, this is considered a retake.
- Mastery of 19-20 standards will advance you into Math 153.

Student Information & Resources

Accessibility and Accommodations

Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, discuss your concerns with your instructor. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963.2214 or email ds@cwu.edu for more information.

Faith/Tradition Observances Policy

In compliance with RCW 28B.137.010, Central Washington University makes every effort to deal reasonably and fairly with students who, because of religious obligations, have conflicts with scheduled exams, assignments or required attendance. Students must present written notice to their instructor within the first two weeks of class listing the specific dates on which accommodations are required. Contact the Dean of Student Success at (509) 963 – 1515 for further information or questions.

Sexual Misconduct

“Central Washington University is committed to providing all community members with a learning and work environment that is free from sexual harassment and assault. Students have options for getting help if they have experienced sexual assault, relationship violence, and sexual harassment, or stalking. Information can be found at <http://www.cwu.edu/wecare> and in CWUP 2-35-050: Sexual Harassment. Faculty are required to report information regarding sexual misconduct or related crimes.”

“Students may speak to someone confidentially by contacting the CWU Wellness Center, 509-963-3213, or the CWU Student Counseling Clinic, 509-963-1391.”

Math 100B Accelerated Algebra Spring Quarter Calendar

The following calendar is a tentative schedule and is subject to change based on understanding, mastery and general pace of each particular class of students

MARCH & APRIL 2022						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Mar. 27	28	29 First Day! of Classes!!	30 S1: Fractions	31 S1: Fractions S2: Order of Operations	April 1 S2: Order of Operations	2
3	4 Standard 1 & 2 Test	5 S3: Inequalities	6 S3: Inequalities	7 S4: Set & Interval Notation	8 S5 Functions & Function Notation	9
10	11 Standard 3 & 4 Test	12 S5 Functions & Function Notation	13 S5: Linear Equations	14 S5: Linear Equations	15 S5: Linear Equations	16
17	18 Standard 5 test	19 S6: Systems of Equations	20 S6: Systems of Equations	21 S7: Properties of Exponents	22 S7: Properties of Exponents	23
24	25 Standard 6 & 7 Test	26 S8: Exponential Equations	27 S8: Exponential Equations	28 S9: Polynomials	29 S9: Polynomials	30

MAY 2022						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
1	2 Standard 8 & 9 Test	3 S10: Quadratic Equations	4 S10: Quadratic Equations	5 S11: Solving with Quadratic Formula	6 S11: Solving with Quadratic Formula	7
8	9 Standard 10 & 11 Test	10 S12: Factoring (basic)	11 S12/13 Factoring	12 S13: Factoring (advanced)	13 S16: Library of Functions	14
15	16 Standard 12 & 13 Test	17 S16: Library of Functions	18 S14: Transform- ations	19 S14: Transform- ations	20 S15: Properties of Functions	21
22	23 Standard 14, 15, 16 Test	24 S17: Rational Functions	25 S18: Solving Rational Equations	26 S18: Solving Rational Equations	27 COURSE PROJECTS DUE!!!	28
29	30 NO CLASSES Memorial Day!	31 Standard 17 & 18 Test				

JUNE 2022						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 S19: Radicals (simplifying)	2 S20: Radicals (operations/ Equations)	3 S20: Radicals (operations/ Equations)	4 <u>Total 53</u> <u>Days</u>
5	6 FINALS WEEK: NO CLASS STUDY DAY!	7 Retakes 12pm final 12-2pm	8 Retakes 10am final 8-10am	9 Retakes Test Session 8-10am	10	11