

COURSES

SYLLABUS



MATH 100B Introductory Algebra WINTER 2023

Online Asynchronous Course

Instructor Information

Instructor: Amanda von Jentzen ☺

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Office Hours: Samuelson 228H or Zoom ID: 716 753 5323

Monday through Thursday 12-1pm

Friday: by appointment only

Instructor Communication

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

Typically, you can expect to have a response by the morning of the next business day. If you email over the weekend, please allow until Monday for a response.

Preparation

Prerequisites & Requirements

Prerequisite: ALEKS score of 30-44, successful completion of Math 100A

Required Materials

100B Online Lecture notes (posted in the module for each standard)

Calculator/Graphing Calculator (depends on path)

***Note: Cell phones will not be allowed on exams.*

Recommended Materials

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

Course Details

Course Description

This course is designed to prepare students for college-level mathematics by reinforcing algebraic skills and concepts. Symbolic, graphical, and numeric representations will be studied to understand how the concepts of algebra make sense, connect, and are applied in real life situations. 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 future math classes and field of study.

Course Details

Math 100B 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 101 or an equivalent QR course.

For each of your standards, the following schedule is recommended:

Day 1: Print your lecture notes and watch the instruction videos. Complete all practice items in the lecture notes & complete homework

Day 2: Complete practice test & check your solutions. Study your notes, practice items and formulas. Rework problems to be sure you know how to complete the items correctly.

Day 3: Watch review videos. Take the test.

**This will mean that your standard work will overlap.

Standards (Learner Outcome):

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

- STANDARD 1: Numeration & Number Theory
- STANDARD 2: Skills & Operations Review
- STANDARD 3: Fractions (Common Fractions, Decimals & Percent)
- STANDARD 4: Expressions, Equations & Functions
- STANDARD 5: Ratios & Proportion
- STANDARD 6: Mathematical Foundations
- STANDARD 7: Scatterplots & Graphing
- STANDARD 8: Statistics
- STANDARD 9: Quantitative Analysis & Reasoning
- STANDARD 10: Numbers in the Real World
- STANDARD 11: Rate of Change
- STANDARD 12: Linear Functions
- STANDARD 13: Systems of Equations
- STANDARD 14: Inequalities
- STANDARD 15: Introduction to Polynomials
- STANDARD 16: Quadratic Equations & Functions
- ***STANDARD 17: Homework (80%)
- ***STANDARD 18: Budget Project (REQUIRED)

Course Expectations/Policies

Teacher Expectations

- *Be organized (keep track of assignments and tasks to do each week)
- *Be prepared (have necessary materials, complete homework and assignments)
- *Be present (engage regularly in class assignments and group work)
- *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)

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.

Netiquette

Our behavior in an online setting is foundational to our success given the online modality of the course. *Kind and respectful behavior is expected in all online interactions.*

- Before posting a question, check to see if someone has already asked the question and received a reply.
- Stay on topic. Avoid posting comments, thoughts, photos, etc. that are unrelated to the topic.
- When commenting on the thoughts or ideas of a classmate, validate the ideas, tell something you liked and something that you have a question or an idea about.
- Don't type in ALL CAPS. It comes across as screaming/shouting.
- Be professional and careful when posting. Use proper grammar, punctuation and complete sentences, use complete words, not 'text talk' (ex. ty, smh, idk), spell check your comments.
- Be kind and compassionate in your interactions. It is ok to disagree with others, but you must do so in a respectful manner.
- All posts should be free of language that could be considered discriminatory, harassment, offensive, profane, or are judgmental of the ideas/thoughts of others.
- Above all, talk to others how you want others to talk to you.

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.

Homework is due on standard test day, but the expectation is that it will be completed on a daily basis following the lessons in order to strengthen understanding of the material.

“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. Testing days are scheduled for Monday or Tuesday if Monday is a holiday.

You will be required to show your work on paper, clearly numbering and organizing your paper. If you do not show work on your test items, you will not receive credit. The work that you complete will be uploaded and checked. If you do not submit your work in the proper place, you will receive a 0 on the test and have to retake it.

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

If you do not pass a test, you will be able to retake the test up to 5 times. Retakes will have a FINAL DEADLINE of two weeks after the initial test was given.

Retaking a Standard Test

If you score below 80%, you will need to retake the standard test. You **MUST** be sure to prepare for each test.

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 order to avoid procrastinating until the end of the quarter, you will be required to have passed tests within two weeks of the original testing date. 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 the practice items in the lecture notes.
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 issued based on specified academic standards. Students who successfully complete this course will show mastery of a set of 16 mathematical concepts, and 2 study skill concepts, called “standards”.

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. Completed Project (80%)
2. Completion of at least 14 standards

Grading Scale

Number of Standards Met	Grade
17-18	A
16	B+
15	B
14	C+
13	C -
12	D
11	D -
0-10	F

In order to meet the requirements for:

Standards 1-16, Students must show mastery of course content standards by passing the standard assessment with a score of 80% or higher.

*Students may retest on the standards if their first attempt was not successful within two weeks of the original scheduled assessment.

Standard 17, students must obtain at least 80% as an average score on all assigned homework;

Standard 18, students must complete the budget project with 80% or higher.

You will be expected to do a majority of the work outside of class. Your project will be presented to the class as a gallery walk. Your peers will be able to view your project, peer review your work and ask questions. It will be important that your work is clear and concise.

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 Winter 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*

January 2023						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
Jan. 1	2	3	4 First Day! of Classes!!	5 S1: Numeration & Number Theory	6 S1	7
8	9 Standard 1 Test	10 S2: Skills & Operations	11 S2	12 S3: Fractions	13 S3: Fractions	14
15	16 NO CLASSES Martin Luther King Jr Holiday	17 Standard 2 Test	18 S3 Decimals	19 S3 Decimals	20 S3: Percentages	21
22	23 Standard 3 & 4 Tests	24 S5: Ratio & Proportion	25 S5	26 S6: Mathematical Foundations	27 S6	28
29	30 Standard 5 & 6 Tests	31 S7: Scatterplots & Graphing				

February 2023						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 S7	2 S8: Statistics	3 S8	4
5	6 Standard 7 & 8 Test	7 S9: Quantitative Analysis & Reasoning	8 S9	9 S10: Numbers in the Real World	10 S10	11
12	13 Standard 9 & 10 Test	14 S11: Rate of Change	15 S11	16 S12: Linear Functions	17 S12	18
19	20 NO CLASSES President's Day!	21 Standard 11 & 12 Test	22 S13: Systems of Equations	23 S13	24 S13	25
26	27 Standard 13 Test	28 S14: Inequalities				

March 2022						
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 S14	2 S15: Intro to Polynomials	3 S15	4
5	6 Standard 14 & 15 Test	7 S16: Quadratics	8 S16	9 BUDGET PROJECT DUE	10 Standard 16 Test	11
12	13 FINAL WEEK: NO CLASS STUDY DAY!	14	15	16	17	18