

Course Syllabus

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Math 104: College Algebra, Spring 2020, Feb. 3-May 15

Section 1 (71728) MoWeFr 8-9 Swart Hall 303

Section 3 (71730) MoWeFr 9:10-10:10 Swart Hall 303

Section 5 (71732) MoWeFr 10:20-11:20 Swart Hall 303

Instructor Information

Grady (G.) Bullington, Professor of Math, University of Wisconsin-Oshkosh, Office: Swart 121, E-mail: bullingt@uwosh.edu (<mailto:bullingt@uwosh.edu>) Office Hours: 11:30-12:30 MWF

Catalog Description

Math 104, College Algebra

Equations and inequalities; graphs, functions and models; polynomial and rational functions; exponential and logarithmic functions. May not receive credit for both Math 104 and 108. Prerequisite: Math 103 with grade of C or better or placement.

Supplies

Textbook/ALEKS

You must purchase an ALEKS code (which will give you access to an e-book of Miller and Gerken) at the university bookstore. An additional (optional) rental soft cover may be available if you so desire it.

You will also want paper, pencil, and a notebook.

ALEKS

This acronym stands for Assessment and Learning in Knowledge Spaces. It will make up the majority of the homework in the course. Think of it as an adaptive homework system which does not use multiple choice, so students will have to work out the problems on pencil and paper before submitting answers on the computer.

FIRST ASSIGNMENT [edit this to indicate that aleks must be accessed through Canvas]

Once you have acquired the ALEKS license via the bundle, go to ALeKS MATH under Canvas Modules, and, when prompted, enter your purchased ALeKS code as well as the following class code: JUG4U-CE4MQ. Please finish your Initial Knowledge Check as soon as possible and start homework for Section 1.1. It is important that you do your best, answer questions as accurately yourself, without the aid of others in order for ALEKS to properly gauge your skills so that you will have the best possible experience with the program.

Calculator

A scientific calculator will be needed on some in-class written exams and quizzes, though only the TI-83 or TI-84 will be supported. No calculator with computer algebra systems (CAS) should be used. No cell phone or other electronic device will be allowed to be used as a calculator. No exceptions are made to this policy. So if you forget to bring a scientific calculator, you risk not having one on exams and quizzes. On ALEKS assessments, a calculator button will show up if one is needed (no other calculator will be allowed).

ALEKS Customer Support

For ALEKS customer support, call (714) 619-7090 or online through the contact information at www.aleks.com [_\(http://www.aleks.com\)_](http://www.aleks.com). ALEKS customer support is available from Sundays 3PM-12AM, Mondays-Thursdays from 6AM to 12 AM and Friday from 6AM to 8PM. (You may want to put this number in your cell phone just in case.)

Campus Computer Support

For on-campus computer support, contact UW-O's Academic Computing at 424-3020 or send an email helpdesk@uwosh.edu [_\(mailto:helpdesk@uwosh.edu\)_](mailto:helpdesk@uwosh.edu). Their hours are 7:30AM - 4:30 PM.

Grade

Your grade in Math 104 will be determined by three factors: 72% over of 3 exams, 18% on ALEKS, and 10% on Quizzes.

ALEKS	18%
Participation/Activities	10%

3 Exams (81%)	1st exam 24%, March 5-6
	2nd exam 24%, April 9-10
	3rd exam 24%, May 13-14

Grading Scale

Standard grading scale is used where scoring above 93% is an A, 90-92% is an A-, 87-89% is a B+, and so on. Grades (except for the ALEKS component) will be posted on Canvas. Consult ALEKS for the running average for that part of your grade.

Canvas

The syllabus, exam and activities grades, and other class material will be posted on Canvas. It is important that you are aware of content and announcements in Canvas throughout the class.

Tests

Tests will not be purposely comprehensive. Though, later material will often reference earlier material.

Participation/Activities

The activities/participation grade will relate to group activities which require your active learning. Usually, there will be at least one day per week where time is devoted to group activities.

Homework via ALEKS

Homework problems will be assigned using ALEKS at www.aleks.com [.\(http://www.aleks.com\).](http://www.aleks.com)

Class Code: JUG4U-CE4MQ

All homework is due by midnight on the date displayed on the ALEKS time line.

ALEKS Feedback

An advantage of an online homework system is instantaneous feedback.

- Problems come from specific topics that are divided up by section of the textbook. Credit for a

topic is awarded when enough problems are correctly solved. This is determined by ALEKS and is based on each individual's readiness for progression.

- Instead of solving a problem there is an option to see an explanation of the solution. However, this will not count toward completing a topic.
- Review problems are available in ALEKS.
- ALEKS makes the following available: a grade book, a progress report, a time line, and an ALEKS Pie which shows both the number of topics that have been completed as well as a number that are remaining.
- Even though ALEKS is online, every problem needs to be worked out by hand with paper and pencil. Students are encouraged to have a dedicated notebook for their ALEKS assignments. Their notes will be useful for completing similar problems or when seeking aid from the instructor or a tutor.

Etiquette

All electronic devices that could disrupt class should be in sleep mode or off while class is in session. No electronic device other than a computer (like I-phones, cell phones, MP3-players) should be handled during class unless use is requested by me, the instructor.

Cheating

Cheating refers to when you use other websites to solve your problem, or copying solutions from another student. If you are caught cheating on ALEKS or paper/pencil exams assessments, academic misconduct proceedings will be started against you and you will not be allowed to take any further exams until this matter is resolved. Cheating is a serious offense and will not be tolerated. The mastery you demonstrate in this class is your own work and you should take pride in your dignity and ethical behavior that is expected of you in college. Students are encouraged to review the procedures related to violations of academic honesty as outlined in Chapter UWS 14. The student discipline code can be viewed on the web at

<http://www.uwosh.edu/deanofstudents/university-polices-procedures/documents/ChapterUWS14.pdf> [_ \(http://www.uwosh.edu/deanofstudents/university-polices-procedures/documents/ChapterUWS14.pdf\)](http://www.uwosh.edu/deanofstudents/university-polices-procedures/documents/ChapterUWS14.pdf)

Attendance

University Attendance Policy can be found at <http://www.uwosh.edu/registrar/policies/attendance-policy> [_ \(http://www.uwosh.edu/registrar/policies/attendance-policy\)](http://www.uwosh.edu/registrar/policies/attendance-policy)

General Education

Explore Mathematics (XM) Math 104 is an Explore course within the Nature category of UW Oshkosh's University Studies Program. As part of a liberal education, explore courses support a broader understanding of the physical and natural world and develop transferable skills, like problem-solving, which may be utilized in daily and professional life. Math 104 emphasizes the following intellectual and practical skills:

- Identification and objective evaluation of theories and assumptions.
- Critical and creative thinking
- Written and oral communication
- Quantitative literacy

Tutoring Resources

Tutoring will be available free-of-charge through the Center for Academic Resources (CAR) in Dempsey 317, 424-3419. And www.uwosh.edu/car [.\(http://www.uwosh.edu/car\)](http://www.uwosh.edu/car)

Students with Disabilities

Students with disabilities have the right to accommodation to create equity in their academic pursuit. If you have an accommodation requirement, please submit it within the first week of class. If you think that you need such accommodation, and haven't registered it with the University, Project Success is a good place to start. Project Success is a remedial program for students with language-based learning disabilities attending UW Oshkosh. Email: projectsuccess@uwosh.edu [.\(mailto:projectsuccess@uwosh.edu\)](mailto:projectsuccess@uwosh.edu)

More Resources

For a more exhaustive list of the resources UW-O has to offer, please visit:

<https://www.uwosh.edu/usp/for-students/resources> [.\(https://www.uwosh.edu/usp/for-students/resources\)](https://www.uwosh.edu/usp/for-students/resources)

Disclosure

"Students are advised to see the following URL for disclosures about essential consumer protection items required by the Students Right to Know Act of 1990:

<https://uwosh.edu/financialaid/consumer-information/> [\(https://uwosh.edu/financialaid/consumer-information/\)](https://uwosh.edu/financialaid/consumer-information/).”



Learning Outcomes:












This course provides a review of elementary algebra. It presents Equations and Inequalities, Functions and Relations, Polynomials and Rational Functions, and Exponential and Logarithmic Functions.

The goal of this course is to give students appreciation of mathematics and algebraic tools they need in order to be successful in other mathematics and science courses. It focuses on problem solving, critical thinking and learning basic concepts in Algebra. Upon successful completion of the course, students are expected, but are not limited, to have the ability to do the following.

- Be able to communicate graphically, numerically, and algebraically in the notation and vocabulary of college algebra.
- Display a basic understanding of the general concepts of functions, relations, equations, and inequalities.
- Be competent in working with linear and quadratic functions in theory and application.
- Be able to show a basic understanding of inverse functions by displaying a proficiency in working with their properties.
- Be able to identify the properties of polynomials of different degrees and rational functions.
- Have an understanding of how the roots of a polynomial determine its factorization.
- Display a working knowledge of the definitions and manipulations of exponential and logarithmic functions and equations.
- Be able to model and predict situations using algebra.

Course Summary:

Date	Details	
Fri Mar 6, 2020	 Test 1 (https://uwosh.instructure.com/courses/287943/assignments/1515586)	due by 11:59pm
Fri Apr 10, 2020	 Test 2 (https://uwosh.instructure.com/courses/287943/assignments/1515587)	due by 11:59pm

Date	Details
Thu May 14, 2020	 Test 3 (https://uwosh.instructure.com/courses/287943/assignments/1515588) due by 11:59pm
	 Assignment 2 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515576)
	 Assignment 1 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515575)
	 Assignment 10 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515574)
	 Assignment 3 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515577)
	 Assignment 4 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515578)
	 Assignment 5 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515579)
	 Assignment 6 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515581)
	 Assignment 7 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515582)
	 Assignment 8 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515583)
	 Assignment 9 Participation (https://uwosh.instructure.com/courses/287943/assignments/1515584)

