

Math 146 Syllabus

College Algebra
Section 7; Credits: 3

Fall 2019

12:30-1:15 TuTh NH 205
Final exam: 10:15am-12:15 12/19/19

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Office hours (getting help): I will be available in my office to answer questions (207B NH; office phone 715-425-4360) MWF 10:00-11:50 and TuTh 12:30-1:30. I am around a lot during the day when I am not in class, and I am (almost) always happy to see you (it is a good idea to make an appointment if you are able to plan ahead). You can also visit the Math Help Center (NH 145) for math help.

Text: you should have the textbook College Algebra and Trigonometry by Lial et al (5th ed.)

Announcements and the homework assignments are posted on my web site: <http://langfordmath.com/>. I will be posting your scores on Canvas. Sometimes there are problems (both human and machine errors). **Please save your graded work until after you have checked your grades in Canvas to make sure I have scores recorded correctly.**

Goals for this class:

- Understand and make good habits for algebra
- Get ready for Chemistry
- Get ready for Physics
- Get ready for Trigonometry

Assignments:

I will be assigning and collecting homework daily.

Attendance and Participation:

Attending and working on math during class time is important.

Tests: There will be three in class chapter tests (100 points each) and a comprehensive final exam (200 points). See the class website at <http://langfordmath.com/Courses/M146/M146-F19/146indexF2019.html> for a projected schedule

Grading: Your grade will be based primarily on your scores on homework, presentations, quizzes and the final exam. Homework will count as 15% of your grade, attendance and participation 5%, and the tests will count as 80% of your grade. Your grade will be based primarily on the weighted average of your scores. Letter grades will be at least as high* as those determined by your weighted average and these percents:

A: 94-100%	A-: 90-93%	B+: 87-89%	B: 84-86%	B-: 80-83%
C+: 77-79%	C: 74-76%	C-: 70-73%	D+: 67-69%	D: 60-66%

*I will occasionally raise a grade for someone who shows a greater understanding of the content (eg. in class discussions and presentations) than is reflected in the test scores, but I never lower a grade below what is indicated by the weighted average).

Late work: Late work will be accepted at my convenience. Late work may earn partial or full credit, depending on when it is turned in (see longer syllabus in D2L for details).

The UWRF promotes safe, inclusive and effective learning environments that protect the rights and support the interests of both students and faculty. For additional information regarding our inclusivity expectations, academic accommodations, academic conduct expectations and processes, and other syllabi information, please consult <http://go.uwrf.edu/Syllabi>

Appendix/expanded syllabus

More on Late Work: Typically, if the work is turned in before I have a chance to grade that assignment, your work will be graded with the rest of the class. If you turn in work after I have graded the assignment for the rest of the class, you may still get full credit if your work is late due to an excused absence (circumstances beyond your control: illness, car in need of towing on the way to class, etc), and you have documentation verifying the reason for the absence. Vacations are not excused absences. If you do not have a verifiable excused absence, you may still get partial credit (about 50%) if the work is done in a reasonable amount of time (approx. 1 week).

Missed tests can be made up for partial credit (75%) if you contact me promptly (I should hear from you before the next class meeting if you miss an exam), and reschedule to take the exam promptly. I may choose to allow a late exam for full credit in cases of an excused absence (see above). If you are missing an exam for a university sponsored event, you should be contacting me in advance to schedule your test. As with final grades, I may choose to give higher amounts of partial credit depending on the circumstances.

Course Objectives

At the end of this course students will be able to:

1. Solve the following types of equations: linear, quadratic, higher order polynomial, rational, exponential and logarithmic.
2. Analyze graphs of functions including linear, quadratic, higher order polynomial, rational, exponential and logarithmic.
3. Solve linear and quadratic inequalities.
4. Solve applied problems that involve linear, quadratic, exponential and logarithmic functions.

Course Content

I Equations and Inequalities

- A. Linear Equations
- B. Applications and Modeling with Linear Equations
- C. Complex Numbers
- D. Quadratic Equations
- E. Modeling with Quadratic Equations
- F. Other types of Equations and Applications
- G. Inequalities
- H. Absolute Value Equations and Inequalities

II Graphs and Functions

- A. Rectangular Coordinates and Graphs
- B. Circles
- C. Functions
- D. Linear Functions
- E. Equations of Lines and Linear Models
- F. Function Operations and Composition

III Polynomial and Rational Functions

- A. Quadratic Functions and Models
- B. Zeros of polynomial Functions
- C. Polynomial Functions: Graphs, Applications, and Models
- D. Rational Functions: Graphs, Applications, and Models

IV Inverse, Exponential and Logarithmic Functions

- A. Inverse Functions
- B. Exponential Functions
- C. Logarithmic Functions
- D. Evaluating Logarithms and Change-of-Base Theorem
- E. Exponential and Logarithmic Equations
- F. Applications and Models of Exponential Growth and Decay

Mode of Instruction: Face to Face

Prerequisites: WPT Math Formula score of 40+, ACT Math score of 20+, or Math 30

Attendance and Participation: I will frequently (but not perfectly consistently) take roll and mark students who are not attending. Participation will be marked out of 20 points, with a point deducted for each absence. Attendance points can't be made up, but 2 absences will be dropped when final grades are computed.

Academic Integrity

Language regarding the University of Wisconsin-River Falls Academic Misconduct code, including a discussion of the appropriate policies and procedures to be followed in any case of potential misconduct, is located here.

"UWS Chapter 14 is the chapter of the University of Wisconsin System Administrative code that regulates academic misconduct" for all campuses in the UW System and outlines the process by which the code is adjudicated.

UWS 14.03 defines academic misconduct as follows:

Academic misconduct is an act in which a student:

- seeks to claim credit for the work or efforts of another without authorization or citation;
- uses unauthorized materials or fabricated data in any academic exercise;
- forges or falsifies academic documents or records;
- intentionally impedes or damages the academic work of others;
- engages in conduct aimed at making false representation of a student's academic performance;
- assists other students in any of these acts.

Examples include but are not limited to:

- Cutting and pasting text from the web without quotation marks or proper citation
- Paraphrasing from the web without crediting the source;
- Using notes or a programmable calculator in an exam when such use is not allowed;
- Using another person's ideas, words, or research and presenting it as one's own by not properly crediting the originator; stealing examinations or course materials;
- Changing or creating data in a lab experiment;
- Altering a transcript;
- Signing another person's name to an attendance sheet;
- Hiding a book knowing that another student needs it to prepare an assignment;
- Collaboration that is contrary to the stated rules of the course, or tampering with a lab experiment or computer program of another student.

If you are suspected of misconduct, you may have questions and concerns about the process. If so, you should feel free to call the Office of Student Conduct & Community Standards at 715-425-4844, send an email, and/or consult its website for additional information.

Inclusivity, Respect, and Ability/Disability Expectations

1. The University of Wisconsin-River Falls strives to maintain our campus as a place of work and study for faculty, staff, and students that is free of all forms of prohibited discrimination and harassment. If you have concerns about such behavior, contact your instructor, the Office of Student Conduct and Community Standards at 715-425-4844, or the Office of Equity, Diversity, and Inclusion at 715-425-3833. For a list of prohibited behaviors and protected classes or to report something that is inappropriate using an online process, go to this page.

2. The University of Wisconsin-River Falls is committed to upholding standards that promote respect and human dignity in an environment that fosters academic excellence and professionalism. Sexual misconduct and relationship violence in any form are antithetical to the university's mission and core values, violate university policies, and may also violate federal and state law. Faculty members are considered "Responsible Employees" and are required to report incidents of sexual misconduct and relationship violence. If you or someone you know has been impacted by sexual assault, dating and domestic violence, stalking, or sexual exploitation, please visit Title IX to access information about university support and resources.

3. The University of Wisconsin-River Falls welcomes students with disabilities into its educational programs, activities, residential halls, and everything else it offers. Those who will need academic adjustments or accommodations for a disability should contact the Ability Services Office. Decisions to allow adjustments and accommodations are made by the Ability Services Office on the basis of clinical documentation that students provide to sufficiently indicate the nature of their situation.