University of Wisconsin-Stevens Point **Fall 2021**

MATH 95-05: Intermediate Algebra

&

MATH 107-05: Algebra for Pre-Calculus

Instructor

Katie Holt
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Office: SCI D260
Office Hours in SCI D260: Tuesdays & Thursdays 2:00pm - 3:15pm
Zoom Office Hours: Mondays 3:00pm - 4:30pm

Class Schedule

MATH 95: September 2 – December 10; MoTh 10:00am – 10:50am, Science Building (SCI) A213
MATH 107: September 2 – December 10; TuFr 10:00am – 10:50am, Science Building (SCI) A213

Course Description

MATH 95 – Intermediate Algebra, 2 credits
Linear equations including graphing, exponents, radicals, function notation, and quadratic equations.

MATH 107 – Algebra for Pre-Calculus, 2 credits
Factoring and simplifying rational expressions, interval notation, solving absolute value equations, linear inequalities, rules of exponents and logs, solving exponential equations, functional notation, evaluation of functions and graphs.

Course Structure

This course will be delivered in person and we will use WebAssign for homework. You will use your UWSP account to login to our Canvas course which will contain your grades for the course, course note outlines, and the syllabus.

Required Materials and Online Registration

- *Elementary and Intermediate Algebra,* 5th Edition by Tussy and Gustafson, **WebAssign access** (comes with eText).
  - We will be using WebAssign for homework from the book.
  - Our **class key** is **UWSP 3643 6012**.
  - You will be given a WebAssign access code for the semester, you do not need to purchase this on your own.
- You may use any four-function, scientific, or graphing calculator without a computer algebra system. **Cell phone calculators will not be allowed on exams.** Please check with me if you have any questions about calculators.

<table>
<tr><th>MATH 95 Sections to be covered</th><th>MATH 107 Sections to be covered</th></tr>
<tr><td><u>Chapter 5</u>
5.1 Rules for Exponents
5.2 Zero and Negative Exponents
5.3 Scientific Notation
5.4 Polynomials
5.5 Adding and Subtracting Polynomials
5.6 Multiplying Polynomials
5.7 Special Products</td><td><u>Chapter 7</u>
7.1 Simplifying Rational Expressions
7.2 Multiplying and Dividing Rational Expressions
7.3 Adding and Subtracting with Like Denominators; Least Common Denominators
7.4 Adding and Subtracting with Unlike Denominators
7.5 Simplifying Complex Fractions
7.6 Solving Rational Equations</td></tr>
<tr><td><u>Chapter 6</u>
6.1 The Greatest Common Factor; Factoring by Grouping
6.2 Factoring Trinomials of the Form $x^2 + bx + c$
6.3 Factoring Trinomials of the Form a$x^2 + bx + c$
6.4 Factoring Perfect-Squares Trinomials and the Difference of Two Squares
6.5 Factoring the Sum and Difference of Two Cubes
6.6 A Factoring Strategy
6.7 Solving Quadratic Equations by Factoring</td><td><u>Chapter 8</u>
8.1 Review of Solving Linear Equations, Formulas, and Linear Inequalities
8.2 Functions (Basics only)
8.3 Graphs of Functions (Basics only)
8.4 Solving compound inequalities
8.5 Solving absolute value equations and inequalities</td></tr>
<tr><td><u>Chapter 9</u>
9.1 Radical Expressions and Radical Functions
9.2 Rational Exponents
9.3 Simplifying and Combining Radical Expressions
9.4 Multiplying and Dividing Radical Expressions
9.5 Solving Radical Equations
9.6 Geometric Applications of Radicals</td><td rowspan="2"><u>Chapter 11</u>
11.1 Algebra and Composition of Functions
11.2 Inverse Functions
11.3 Exponential Functions
11.4 Logarithmic Functions
11.5 Base- Exponential and Logarithmic Functions
11.6 Properties of Logarithms
11.7 Exponential and Logarithmic Equations</td></tr>
<tr><td><u>Chapter 10</u>
10.1 The Square Root Property and Completing the Square
10.2 The Quadratic Formula
10.3 The Discriminant and Equations That Can Be Written in Quadratic Form</td></tr>
</table>

Grading

Each course will have a separate grade. Your final grades will be based on your effort and success with graded chapter tests, a final exam, and WebAssign homework. The table below shows the graded course components with ***tentative*** dates (*chapter test dates could change!*):

Item	Tentative Date(s)
WebAssign Homework	Ongoing
Test 1: Sections 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7 (MATH 95)	**September 27**
Test 2: Sections 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 8.1, 8.2, 8.3, 8.4, 8.5 (MATH 107)	**October 25**
Test 3: Sections 9.1, 9.2, 9.3, 9.4, 9.5, 9.6, 10.1, 10.2, 10.3 (MATH 95)	**November 19**
Test 4: Sections 11.1, 11.2, 11.3, 11.4, 11.5, 11.6, 11.7 (MATH 107)	**December 9**
Cumulative Final Exam for MATH 95 & MATH 107	**December 13, 5pm**

Assignments: Daily homework assignments will be completed via WebAssign. Each section of every chapter we cover will have assigned homework problems that will be due the day of the exam, an hour before the exam. WebAssign will not be reopened for late submission of homework for any reason – a malfunctioning computer is not an acceptable excuse for not finishing homework. Lowest two homework section grades (for each course) will be dropped. We will also be doing in class worksheets when time permits, they will be for no credit.

Chapter Tests: Tests on chapter material will be done on paper in class. Partial credit will be given for all problems when appropriate. You may use calculators, but no notes, formula sheets, or books are allowed unless stated otherwise. Make-up chapter tests will not be allowed unless an excused absence has been documented. Please contact me before the test if you know there is going to be an issue.

Final Exam: There will be a final exam grade for both MATH 95 and MATH 107 but we will only have one exam with material from both courses included. The final exam will be on **December 13 at 5pm in CCC 213**.

Attendance: Attendance will not count explicitly in the calculation of your grade, but attending class is imperative since all of the exams will be mostly based on what we cover in class.

Final Grade Weights:

MATH 95 final grade:

- Assignments: 45%
- Chapter Tests: 35%
- Final Exam: 20%

MATH 107 final grade:

- Assignments: 45%
- Chapter Tests: 35%
- Final Exam: 20%

Grading Scale for MATH 95 & 107

Final grades will be based on the percentages shown below. I reserve the right to lower/raise these cutoff points. The cutoff points are:

94%- 100%	A	80%- 83%	B-	67%-69%	D+
90%- 93%	A-	77%-79%	C+	64%-66%	D
87%- 89%	B+	74%-76%	C	60%-63%	D-
84%- 86%	B	70%-73%	C-	0%-59%	F

Tutoring-Learning Center (TLC)

The Tutoring-Learning Center (TLC) offers FREE tutoring to support you in your math classes. The tutors are UWSP students who have done well in their classes and who are here to share their successful study habits and math content knowledge to help others succeed. Discussing mathematical concepts and practicing problems together clarifies and solidifies knowledge, and the tutors are eager to study with you.

- STEM One-on-One Tutoring: https://www.uwsp.edu/tlc/Pages/request-math-science-tutoring.aspx
- STEM Drop-In Tutoring: https://www.uwsp.edu/tlc/Pages/dropInTutoring.aspx

MathPad

The MathPad is both a classroom and free tutoring lab for students enrolled in MATH 90/95/107.
For more information visit https://www.uwsp.edu/mathsci/Pages/tutoring.aspx.

UWSP Technology Support

- Seek assistance from the IT Service Desk (Formerly HELP Desk)
  - IT Service Desk Phone: 715-346-4357 (HELP)
  - IT Service Desk Email: techhelp@uwsp.edu

University Policy Regarding Students with Disabilities

If you have a documented disability and verification from the Disability and Assistive Technology Center and wish to discuss academic accommodations, please contact your instructor as soon as possible. It is the student's responsibility to provide documentation of disability to Disability Services and meet with a Disability Services counselor to request special accommodation *before* classes start. The Disability and Assistive Technology Center is located in 609 Albertson Hall and can be contacted by phone at (715) 346-3365 or via email at datctr@uwsp.edu.

Understand When You May Drop This Course

It is the student's responsibility to understand when they need to consider unenrolling from a course. Refer to the UWSP Academic Calendar for dates and deadlines for registration. After this period, a serious and compelling reason is required to drop from the course. Serious and compelling reasons includes: (1) documented and significant change in work hours, leaving student unable to attend class, or (2) documented and severe physical/mental illness/injury to the student or student's family.

Statement of Academic Integrity

Academic Integrity is an expectation of each UW-Stevens Point student. Campus community members are responsible for fostering and upholding an environment in which student learning is fair, just, and honest. Through your studies as a student, it is essential to exhibit the highest level of personal honesty and respect for the intellectual property of others. Academic misconduct is unacceptable. It compromises and disrespects the integrity of our university and those who study here. To maintain academic integrity, a student must only claim work which is the authentic work solely of their own, providing correct citations and credit to others as needed. Cheating, fabrication, plagiarism, unauthorized collaboration, and/or helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. Failure to understand what constitutes academic misconduct does not exempt responsibility from engaging in it. Students suspected of academic misconduct will be asked to meet with the instructor to discuss the concerns. If academic misconduct is evident, procedures for determining disciplinary sanctions will be followed as outlined in the University System Administrative Code, Chapter 14.

This syllabus is subject to change and you are responsible for keeping up with any changes and announcements.