

Math 107 - Spring 2019 General Course Information - (Sec 10)

Alvin Schuller aschulle@uwsp.edu

M107 Sec 10 12:00 - 12:50 p.m.

M T W R in CCC 212

Office: CCC 302A MathPad

Cellphone: 715-572-3995

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(If you leave a voicemail, then, please, also, send a text or an e-mail, if possible.)

Office hours:

Mon: 10-10:50 a.m

Tues: 10-10:50 a.m

Wed: 10- 10.50 a.m

Thurs: 10-10:50 a.m

I am available for hours other than these, so please, feel welcome to stop in with questions or to chat. I like to get to know my students.

Math 107 – Algebra for Pre-Calculus: 2 cr.

- Algebra for Pre-Calculus is for those students with M95 or suitable placement test scores who are moving beyond fundamental math skills. The credits do count toward a degree.

- We will develop and practice math skills in the following areas:

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. (some material may be modified)

Text: Elementary & Intermediate Algebra, 5th Ed., by Alan S. Tussy and R. David Gustafson,

Supplementary Material: An optional online study guide complements the text.

Suggestions for success:

- Be responsible for your own learning and treat it as your current job!
- Read the textbook and review examples and/or review online resources (Winning at Math by Paul D. Nolting is a good read for those who need to develop successful study skills)
- Attend face-to-face lectures and engage your brain.
- Do assigned problems (and practice problems) to understand concepts.
- Ask questions before, during, and after class, or online, at your convenience.
- Visit your instructor at his office to discuss coursework.
- Utilize UWSP resources to seek additional help.
- Ask classmates and likewise, help classmates when asked.

“...The true test of understanding a concept or skill is being able to teach it to someone else...”

Course Outcomes: Students should understand and appreciate the following:

- Algebraic expressions can be rewritten in an equivalent simplified form.
- Solving equations/inequalities is a process whereby one can find values that yield a true statement.
- There are several methods to use in solving equations/inequalities and therefore analyzing problems will typically help in determining the appropriate method to use.
- Problem solving skills allow us to approach real life problems, analyze how to solve them, and check our answers.

Target Audience: This traditional section is available for those seeking more explanations and examples. (This course is meant for students that have a working knowledge of fundamental math topics and skills, and/or are highly motivated to study, independently, outside of face-to-face lectures.)

Course Format & Expectations: Class Schedule

- Monday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section: Section 10: 12pm-12.50pm (in assigned room)
- Tuesday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section: Section 10: 12pm-12.50pm (in assigned room)
- Wednesday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section: Section 10: 12pm-12.50pm (in assigned room)
- Thursday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section: Section 10: 12pm-12.50pm SCI (in assigned room)

Attendance:

- Regular attendance is expected. Attend class regularly and be on time. You are allowed two absences without penalty.
- If you are absent more than twice, I will deduct 10 points for each absence. ●
- If you are absent 4 or more times, I will lower your final grade one letter grade.
- If you are late on a habitual basis, I will deduct 5 points for each tardy.
- E-mail or text me if you will be missing a class.
- Absences for serious illness, family emergencies, or University sponsored activities may be excused, provided you, adequately, notify the instructor (me), verbally or by e-mail, prior to intended absence or when you provide documentation of the emergency.
 - Tests will not be given later for unexcused absences. Arrangements must be made PRIOR to the test date if possible. Five (5) unexcused absences could result in an automatic failing grade.
 - I will deduct points at my discretion for use of cell phones, texting, talking, sleeping, and leaving early, etc.

Communication

Canvas / D2L / WebAssign / UWSP E-mail: All of these resources could be used for communication between the instructor and students. **Students will be responsible for reading all messages and assignments posted on any of the above, and/or written, or vocalized in lectures.** Of course, as the instructor, I reserve the right to override all other forms of communication

Netiquette: Please read the article below and consider the rules for online discussions: <http://online.uwc.edu/technology/onletiquette.asp>. Violation of these rules will reduce participation points.

- **Homework:** Most homework will be completed online using WebAssign. Other assignments may be required via discussions in D2L, on paper, or other means.
- Missed in-class assignments won't be available to make up, unless you have an excused absence and it may require your attendance at a different time for completion.
- Late penalties may be assessed for late homework, unless absences were excused and documented as noted above.
- Homework will not be accepted after two weeks beyond the due date (except at the discretion of the instructor).
- Extra credit earned during class periods will not be accepted late.
- **Online Homework Component:** In this traditional course, it is expected that you will review classwork material and do online homework after face-to-face lectures. In-class lectures will cover content at a reasonable pace and self-motivation is expected. Expect to do some independent enrichment work. This forms 25% of your overall grade.
- **Quizzes:** will make up 25% of your grade
- **Tests:** will make up 20% of your grade.
- Generally, it is my policy to not allow make-up tests. An exception is likely to be made provided you make your request in advance of the test. The make-up date will need to be within a reasonable timeframe and at the convenience of the instructor.
- **Final Exam:** The final is a written (pencil and paper) exam on Monday, May 13, 5:00- 7:00 p.m. (venue: SCI D102)

Exams: cumulative mid-term and final scores make up 30% of your grade

Grading: Grades will be based on the following percentages:

Homework:	25%	93 - 100 %/0	A ⁺	73 - 76.99 %/0	C
Quizzes:	25%	90 - 92.99	A ⁻	70 - 72.99	C-
Tests:	20%	87 - 89.99	B ⁺	67 - 69.99	D ⁺
Final Exam:	30%	83 - 86.99	B	60 - 66.99	D
		80 - 82.99	B-	50 - 59.99	F
		77 - 79.99	C ⁺		

No grading category will exceed 105% for purposes of calculating the final grade.

1. The instructor reserves the right to exercise discretion in raising a student's grade if he feels that the final weighted average does not properly reflect the quality of a student's work. The instructor will not use discretionary judgments to lower a student's final grade.
2. Appeal of grading should be submitted in writing, within 5 days of receiving the evaluation.

Incompletes: A grade of incomplete may be given when circumstances arise which are beyond the student's control and the student is unable to complete the course AND the student is passing when the circumstances arise.

Electronics: Cell phones should be turned off during class time. Exceptions may be made for unusual circumstances, if discussed with the instructor, prior to use,

Earphones/buds may not be used during a quiz or exam and will be considered as rude behavior during lectures.

Calculators: You may use any four-function, scientific, or graphing calculator, except calculators, pocket organizers, handheld or laptop computers, electronic writing pads, pen-input devices, smartwatches, or calculators built into cellular phones or other wireless communication devices, or calculators with a typewriter keypad with keys in QWERTY format, or calculators with built-in computer algebra systems.

Prohibited calculators in this category include:

- Casio: Algebra fx 2.0, ClassPad 300, and all model numbers that begin with CFX-9970G,
- Texas Instruments: All model numbers that begin with T1-89 or T1-92,
- Hewlett-Packard: hp 48GII and all model numbers that begin with hp 40G or hp 49G.
- Calculators which have been modified such as calculators with paper tape (remove the tape), calculators that make a noise (turn off the sound feature), calculators that can communicate wirelessly with other calculators [completely cover the infrared data port with heavy opaque material, such as duct tape or electrician's tape (includes HewlettPackard HP-38G series and HP-48G)], calculators that have power cords (remove all power/electrical cords) and they'll be acceptable. Sharing calculators or smartwatches during exams/quizzes is not allowed.

On-Campus Resources:

- **MathPad:** CCC 302. MathPad is both a classroom and tutoring lab for students enrolled in Math 90/95/107 courses.
- **Math Tutoring Room:** A113A Science. UWSP students provide free tutoring on a drop-in basis. See <http://www.uwsp.edu/mathsci/Pages/tutoring.aspx> for details of services.
- **The Tutoring Learning Center (TLC):** LRC 018 - The Tutoring-Learning Center offers individual tutoring. If you are enrolled in support services on campus such as Disability Services, Multicultural Affairs, or Student Support Services there is no fee. If you aren't enrolled in these services, one-on-one tutoring is available for a fee.
- **Disability Accommodations:** Information regarding Section 504 of the Rehabilitation Act or the Americans with Disabilities Act can be found at the UWSP Disability and Assistive Technology Center site <http://www.uwsp.edu/special/disability/>. To request any accommodations relevant to this class, you should first discuss the matter with the staff at the Center. Details regarding the documentation necessary to qualify for accommodation can be found at <http://www.uwsp.edu/disability/Pages/toQualifyForDisabilityServices.aspx>.
- **Community Bill of Rights and Responsibilities:** You should be fully aware of your rights and responsibilities as a UWSP student. These are detailed in the UWSP Community Bill of Rights and Responsibilities found at <http://www.uwsp.edu/dos/Documents/Community%20Rights%20and%20Responsibilities.pdf>.
- In particular, this site includes links to the UWSP Student Academic Disciplinary Procedures, <http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap14.pdf> and to the Non-Academic Standards and Disciplinary Procedures, <http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rights.pdf>
- **General Course Policies**

Tests MUST be ONLY your own work. You are encouraged to work together or ask for assistance on homework (unless otherwise specified), but it remains your responsibility to learn and understand the content.

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Math 107 Syllabus

Spring 2019

Associate Lecturer: Alvin Schuller
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(715)-572-3995 (cellphone)

Textbook: Elementary and Intermediate Algebra 5ed., Tussy and Gustafson

MATH 107. Algebra for Pre-Calculus. 2 cr. Factoring and simplifying rational expressions, using interval notation, solving absolute value equations, solving and graphing linear equations and inequalities, applying rules of exponents, and using logarithms, solving exponential equations, using functional notation, evaluation of functions and graphs

Prerequisite: M95 or suitable placement test score.

Note. The order of the sections listed below is not necessarily the order in which they are covered. However, the following order is recommended.

CHAPTER 5 EXPONENTS

- 5.1 Rules for Exponents
- 5.2 Zero and Negative Exponents

CHAPTER 9 RATIONAL EXPONENTS

- 9.2 Rational Exponents

CHAPTER 6 FACTORING

- 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 $ax^2 + bx + c$
- 6.4 Factoring Perfect-Square Trinomials and Differences 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

CHAPTER 8 REVIEW OF FACTORING METHODS

- 8.6 Review of Factoring Methods: GCF, Grouping, Trinomials
- 8.7 Review of Factoring Methods: The Difference of Two Squares; the Sum and Difference of Two Cubes

CHAPTER 7 RATIONAL EXPRESSIONS AND EQUATIONS

- 7.1 Simplifying Rational Expressions
- 7.2 Multiplying and Dividing Rational Expressions
- 7.3 Adding and Subtracting Rational Expressions with Like Denominators; LCD
- 7.4 Adding and Subtracting Rational Expressions with Unlike Denominators
- 7.5 Simplifying complex fractions
- 7.6 Solving Rational equations

CHAPTER 8 FUNCTIONS (CHAPTER 3)

- 8.1 Review of Solving Linear Equations, Formulas and Linear Inequalities (one variable)
- 8.2 Functions
- 8.3 Graphs of function
- 8.4 Solving Compound Inequalities
- 8.5 Solving Absolute Value Equations and Inequalities

CHAPTER 11 EXPONENTIAL AND LOGARITHMIC FUNCTIONS

- 11.1 Algebra and Composition of Functions
- 11.2 Inverse functions
- 11.3 Exponential Functions
- 11.4 Logarithmic Functions
- 11.5 Base-e Exponential and Logarithmic Functions
- 11.6 Properties of Logarithms
- 11.7 Exponential and Logarithmic Equations