

Maggie Milkovich Office: B127 SCI Phone: (715) 346 – 4124 Email: mmilkovi@uwsp.edu	Office Hours	Class Meets Monday - Thursday 1:00 – 1:50 pm in SCI A210 Final Exam: Thursday, 10/24, 5-7pm CCC 111
	2:00 – 2:50 Mon – Thurs 5:00 – 5:30pm Mon – Thurs (often later, as well) NOTE: Other office hours by appointment or discovery.	

MATH 107 Algebra for Pre-Calculus 2 credits

Factoring and simplifying rational equations, interval notation, solving absolute value equations, linear inequalities, rules of exponents and logs, solving exponential and logarithmic equations, functional notation, evaluation of functions and graphs.

Prerequisite: Math 95 or suitable placement score.

Learning Outcomes: Upon the successful completion of this course you will depart with the understanding that:

1. Algebraic expressions can be rewritten in an equivalent simplified form.
2. Solving equations/inequalities is a process where to find value(s) that yield a true statement.
3. There are several methods to use in solving equations/inequalities so analysis of the problem will determine the appropriate method to use.

FALL SEMESTER 2019 1st 8 weeks Maggie Milkovich SCI B127					
	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
12:00 PM					
1:00 PM	Math 107-07C A210	Math 107-07C A210	Math 107-07C A210	Math 107-07C A210	not
2:00 PM	OFFICE	OFFICE	OFFICE	OFFICE	on
3:00 PM	Math 255-6 A202	Math 255-6 A202	Math 255-6 A202	Math 255-6 A202	campus
4:00 PM	Math 255-7 A202	Math 255-7 A202	Math 255-7 A202	Math 255-7 A202	on
5:00 PM	I will usually be in my office until 5:30 or later... Other office hours by discovery or appointment.				Fridays

Text: Elementary & Intermediate Algebra, 5th Edition, by Alan S. Tussy and R. David Gustafson, customized for UWSP.

Calculators: You may use any four-function, scientific, or graphing calculator (strongly recommended), except calculators including pocket organizers, handheld or laptop computers, electronic writing pads or pen-input devices (the Sharp EL 9600 is permitted), calculators built into cellular phones or other wireless communication devices, calculators with a typewriter keypad with keys in QWERTY format (calculators with letter keys not in QWERTY format are permitted), 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 TI-89 or TI-92, and TI-Nspire CAS, 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 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 Hewlett-Packard HP-38G series and HP-48G)).

Student Resources:

- **MathPad:** CCC 302. MathPad is both a classroom and a 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 for all math courses.
- **Tutoring Learning Center (TLC):** Individual and group tutoring is available for many subjects, including math. See <http://www.uwsp.edu/tlc/Pages/schedules.aspx> for details.

See <http://www.uwsp.edu/mathsci/Pages/tutoring.aspx> for details of above tutoring services.

Evaluation: Your final course grade will be determined by the following weights:

- 10% for random homework checks
- 25% for quizzes – five quizzes, 5% each
- 45% for Exams – 15% each
- 20% for the comprehensive final exam

Grading Scale:

A:	≥ 92%	A – :	≥ 90% but < 92%		
B + :	≥ 88% but < 90%	B :	≥ 82% but < 88%	B – :	≥ 80% but < 82%
C + :	≥ 78% but < 80%	C :	≥ 74% but < 78%	C – :	≥ 72% but < 74%
D + :	≥ 69% but < 72%	D :	≥ 65% but < 69%	F :	< 65%

Homework will be assigned daily and will consist of problems from your textbook. Usually they will be odd numbered problems, with answers in the back of the book. I will randomly check homework, so keep up and have it ready in case I check it on a particular day. See my “Tips for Success” below for more about homework.

Dates for the **quizzes** and **exams** have not yet been determined, but will be announced in advance as much as possible. Due to time constraints, some quizzes may be taken outside of class (you will be given a 24-hour time period in which to take an out-of-class quiz).

Final Exam: The final exam is comprehensive.

Attendance will be taken, and is expected at every class meeting. Absences for serious illness, family emergencies, or University sponsored activities may be excused provided you adequately notify the instructor by e-mail prior to intended absence or provide documentation of an emergency. It is the student’s responsibility to make every effort to keep up even if absent. Quizzes and exams may not be made up unless arranged with me ahead of time, and then only for sufficient reason.

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.

For Help: 1) Ask questions as they arise. Come to see me after class, during my office hours or schedule an appointment with me for another time. 2) Send me an email – I may be able to assist you, or consult with a fellow classmate. Form a study group! 3) Make use of the MathPad (CCCMath Room (SCI A113A)). 4) Tutoring services (through the TLC) are available for this course. More specifics will be provided in class when they become available.

General Course Policies

- 1) Pagers and cell phones should be turned off and stowed away during class.
- 2) UWSP is committed to providing reasonable and appropriate accommodations to students with disabilities and temporary impairments. If you have a disability or acquire a condition during the semester where you need assistance, please contact the Disability and Assistive Technology Center on the 6th floor of Albertson Hall (library) as soon as possible. DATC can be reached at 715-346-3365 or DATC@uwsp.edu.
- 3) You should be fully aware of your rights and responsibilities as a UWSP student. Refer to <http://www.uwsp.edu/dos/Pages/Student-Conduct.aspx> for more information regarding the UWSP Community Bill of Rights and Responsibilities, the UWSP Student Academic Disciplinary Procedures, and the Non-Academic Standards and Disciplinary Procedures.

Classroom Behavior: I expect students to act in a respectful and mature adult manner during class. This means that you refrain from talking, using your cell phone, coming into class with earphones in your ears, etc. Any student who is causing a distraction to the instructor or to other students will be asked to stop doing so. If it happens again, that student will be asked to leave the classroom for the day.

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 lectures, quizzes or exams. Cell phones and smart watches need to be stowed in a backpack during exams and quizzes.

Tips for Success/How to Study: You should expect to spend about 2-3 hours studying for each hour of class time, on average. For this course, that means at least 8-12 hours a week should be spent studying algebra! Here are my tips for success:

- Before we cover a topic in class, skim the relevant section in your textbook.
- Take complete and neat notes during class. Ask questions if you have them during class.
- After class, read the section in the textbook again, with paper and pencil. Write down all the key points (usually in boxes in the book!). Carefully copy out the textbook examples. Know why each step is taken.
- After each example, do the "Self Check" examples, and the "Now Try" problems.
- NOW you are ready to do your homework.
- Keep a notebook with all your math homework.
 - Stay organized.
 - SHOW ALL YOUR WORK!! Do not skip any steps.
 - Do not cram your work into a small space. Neatness is very important. I will expect to have well written and organized work to grade when I grade your exams and quizzes, so take my advice and develop that skill when doing the homework! I will model for you what organized, well written work is in class when I show examples in class .
- When you have questions about homework problems, I expect to be able to see the work you have done so far so that I can identify where you need help.
- If you need more practice, your book has review exercises and a practice chapter test at the end of each chapter.
- You can only master Algebra skills by practice. You cannot master them by watching me do problems in class; you must do the work and always ask for help if you need it!

TOPICS: Note. The order of the sections listed below is not necessarily the order in which they are covered.

8. TRANSITION TO INTERMEDIATE ALGEBRA

8.4 Solving Compound Inequalities

8.5 Solving Absolute Value Equations

5. EXPONENTS AND POLYNOMIALS

5.1 Rules for Exponents

5.2 Zero and Negative Exponents

9. RADICAL EXPRESSIONS AND EQUATIONS

9.2 Rational Exponents

6. FACTORING AND QUADRATIC EQUATIONS

6.1 Greatest Common Factor; Factoring by Grouping

8. TRANSITION TO INTERMEDIATE ALGEBRA

8.6 Review of Factoring Methods: GCF, Grouping, Trinomials

8.7 Review of Factoring Methods: The Difference of Two Squares

7. RATIONAL EXPRESSIONS AND EQUATIONS

7.1 Simplifying Rational Expressions

7.2 Multiplying and Dividing Rational Expressions

7.3 Adding and Subtracting Rational Expressions

7.4 Adding and Subtracting with Unlike Denominators

7.5 Simplifying Complex Fractions

7.6 Solving Rational Equations

8. TRANSITION TO INTERMEDIATE ALGEBRA

8.2 Functions

8.3 Graphs of Functions

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