Math 90– Fall 2023 General Course Information-(Sec 01, 02, 03, 04 & 07)

Alvin Schuller aschulle@uwsp.edu

M9O Sec 01 8:00 - 8:50 am.
M W T F in CCC 231 or
T meet with tutor in CCC 302

M9O Sec 02 10:00 - 10:50 am.
M W T F in CCC 212 or
T meet with tutor in CCC 302

M9O Sec 03 11:00 - 11:50 am.
M W T F in CCC 304 or
T meet with tutor in CCC 302

M9O Sec 04 1:00 - 1:50 pm.
M W T F in SCI A207 or
T meet with tutor in CCC 302

M9O Sec 07 4:00 - 4:50 pm.
M T W T in CCC 304 or
T meet with tutor in CCC 302

Office: CCC 302A MathPad
Cellphone: 715-572-3995
Office phone: NA

(If you leave a voicemail, then, please, also, send me a text or an e-mail, if possible, **and do include your name**.)

Office hours:

Mon: 12 -1:00 p.m.
Tues: 12 -1:00 p.m.
Wed: 12 - 1.00 p.m.
Thurs: 12 -1:00 p.m.
Fri: 12 -1.00 pm

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

Math 90 - Beginning Algebra: 5 ed.

- Beginning Algebra is for those with low placement test scores who need practice in fundamental math skills. Credits do not count toward a degree.
- We will develop and practice math skills in the following areas: real numbers, problem solving, solving linear equations, graphing, exponents, polynomials, rational expressions. **(Some of the material may be modified)**

IMPORTANT: If you are placed into remedial/developmental coursework in mathematics you must restrict your coursework to a level that will allow for success. **Text:** customized Elementary & Intermediate Algebra, 5th Ed., by Alan S. Tussy and R. David Gustafson

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

Target Audience: This **traditional section** is available for those seeking more explanations and examples. (However, the goal is for students to develop and have a working knowledge of the above topics and thus become highly motivated to study, independently, outside of face-to-face lectures.

**"Success is not final,
failure is not fatal:
it is the courage
to continue that counts"**

WHY?
Course Outcomes: As a student, you should learn to understand and appreciate the following:

- Numbers and variables can be used to describe real life relationships.
- Laws and properties of algebra must be followed to maintain relationships between numbers and variables.
- Graphs provide a visual way to view and analyze relationships between variables.
- Problem solving skills allow us to approach real life problems, analyze how to solve them, and check our answers.
- Knowledge of exponents enables us to manipulate and solve polynomials.
- Mathematics can help us better understand and describe the world around us.
- Developing the potential and skills for finding or creating solutions for problems, which involves gathering and applying new knowledge, makes it possible for a person to solve problems in life.

Critical Thinking Learning Objectives:
This course is part of a pilot program that focuses on the intention to develop in students critical thinking skills across a variety of disciplines.
In mathematics, critical thinking helps us identify mathematical problems, transform them into solvable problems, and then solve them using appropriate techniques.

The pilot program adds the following learning outcomes for students to the course:

- The intention is to have students learn to recognize critical thinking as a process of identifying, evaluating, and constructing mathematical reasoning in deciding what conclusions to draw or what techniques to apply to resolve a problem.
- The intention, also, is to have students learn to recognize that "perfect practice" and persistence are critical to developing and strengthening mathematical ability and acuity.
- The intention is to have students learn to demonstrate persistence, perseverance and resourcefulness in mastering mathematical concepts and techniques.

Suggestions for success:

- **Behave appropriately and be responsible** for yourself and your own learning; and treat this course as your current job!
- **Read** the textbook and **review** examples and/or **review online resources.**
- **Develop effective study skills**
- **Attend** face-to-face lectures and **engage** your brain.
- **Do homework and assigned problems** (and practice problems) to understand concepts.
- **Communicate effectively and ask questions** before, during, and after class, or online, or at your convenience.
- **Visit** your instructor at his office, if necessary, to discuss coursework.
- **Utilize various UWSP support resources** to get additional help.
- **Ask** classmates and, likewise, **help** classmates when asked.

Course Format & Expectations:

- **Class Schedule**
- Attendance is mandatory, especially if any online homework is not complete at 90% or better. The class will meet in **assigned classrooms or in 302, the MathPad.**

- **Monday:** Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section:
  Section 01: 8am- 8.50am CCC 231
  Section 02: 10am-10.50am CCC 212
  Section 03: 11pm-11.50am CCC 304
  Section 04: 1pm- 1.50pm SCI A207
  Section 07: 4pm- 4.50pm CCC 304

  Tuesday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section:
  Section 07: 4pm-4.50pm CCC 304

  Wednesday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section:
  Section 01: 8am- 8.50am CCC 231
  Section 02: 10am-10.50am CCC 212
  Section 03: 11am-11.50am CCC 304
  Section 04: 1pm- 1.50pm SCI A207
  Section 07: 4pm- 4.50pm CCC 304

  Thursday: Always face-to-face instruction. Attendance is expected. We will meet in the MathPad for your section:
  Section 01: 8am- 8.50am CCC 302
  Section 02: 10am-10.50am CCC 302
  Section 03: 11am-11.50am CCC 302
  Section 04: 1pm- 1.50pm SCI A207
  Section 07: 4pm- 4.50pm CCC 302

  Friday: Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section:
  Section 01: 8am- 8.50am CCC 231
  Section 02: 10am-10.50am CCC 212
  Section 03: 11am-11.50am CCC 304
  Section 04: 1pm- 1.50pm SCI A207

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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.
- Please, 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(s) 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 cellphones, texting, talking, unnecessary sleeping, and leaving early, etc.

Homework:

- Most homework will be completed online using MyOpenMath via Canvas. Other assignments may be required on paper, or other means.
- Missed in-class assignments won't be available to make up unless you have an excused absence and may require your attendance in MathPad 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 (if any) earned during class periods will not be accepted late.

General Course Policies

• **Testing MUST reflect your own work.** You are encouraged to work together or ask for assistance on homework (unless otherwise specified), but it is your responsibility to understand and learn the content for tests, quizzes, and exams.

• 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.

• Appeal of any grading should be submitted in writing within 5 days of receiving the evaluation

- **Online Homework Component makes up 25% of your overall grade.** 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. **Please, try to complete assignments way before the tentative due dates**

- **Quizzes: will make up 25% of your grade**

- **Tests: will make up 20% of your grade**

- **Mid-Term Exam**: date and time to be announced ...

- **Final Exam**: The final is a **written (pencil, paper, scantron)** exam tentatively scheduled for Monday, Dec 18, 5:00- 7:00 p.m. (venues: SCI D101 and D102)

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

Grading Scales: Grades will be based on the following percentages:

Homework: 25%

Quizzes: 25%

Tests: 20%

Final Exam: 30%

93 - 100%	A	73 - 76.99 %	C
90 - 92.99	A-	70 - 72.99	c-
87 - 89.99	B+	67 - 69.99	D+
83 - 86.99	B	60 - 66.99	D
80 - 82.99	B-	0 - 59.99	F
77 - 79.99	c+		

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

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.

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.

Other relevant information:

Canvas/ MyOpenMath / UWSP E-mail: All 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, relayed, or vocalized in lectures.**

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.

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 class time, a quiz or exam and will be considered as crude, if not 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 TI-89 or TI-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 Hewlett-Packard 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.

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On-Campus Resources:

MathPad: CCC 302. MathPad is both a classroom and tutoring lab for students enrolled in Math 90/95/107 courses and is usually available from 9am to 7pm Monday through Thursday, and on Fridays it's available till1pm.

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): CCC 234 –

(THE TLC IS IN CCC DURING REBUILDING OF LIBRARY)

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 Resource 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 (CCC 108). Details regarding the documentation necessary to qualify for accommodation can be found at

https://www.uwsp.edu/disability-resource-center/

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 https://www3.uwsp.edu/dos/Documents/2015_Aug_Community%20Rights%20and%20Responsibilities%20Web.pdf

In particular, this site includes links to the UWSP Student Academic Disciplinary Procedures, http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap 14.pdf

and to the Non-Academic Standards and Disciplinary Procedures, http://www.uwsp.edu/stuaffairs/Documents/RightsRespons/SRR-2010/rightsChap 17. pdf.

Finally, this syllabus course guideline is intended to be a guide for student success and course management. Please recognize that it cannot cover every situation that may occur. Decisions will be made by the instructor and discretion will be exercised as needed throughout the semester to address specific issues.

Math 90 Syllabus Content Outline

***Course content may be modified and streamlined as per the stipulations of the department**

ELEMENTARY AND INTERMEDIATE ALGEBRA, 5th EDITION.

Tussy and **Gustafson: MATH 90 Beginning Algebra** 5th ed.

We will develop and practice math skills in the following areas:
Operations with Real numbers, Introduction to Algebra, Problem solving, Unit conversions, Graphing, Linear equations, Exponents, Polynomials, Factoring, Quadratic equations, and Rational expressions.

Prerequisite: relevant 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 1 AN INTRODUCTION TO ALGEBRA

1.1 Introduction to the language of Algebra.
1.2 Fractions
1.3 The Real Numbers
1.4 Addition of Real Numbers
1.5 Subtraction of Real Numbers
1.6 Multiplying and Dividing of Real numbers
1.7 Exponents and Order of Operations
1.8 Algebraic expressions
1.9 Simplifying Algebraic expressions using Real Numbers

CHAPTER 2 EQUATIONS, INEQUALITIES AND PROBLEM SOLVING

2.1 Solving equations using Properties of Equality
2.2 More about Solving Equations
2.3 Applications of percent
2.4 Formulas
2.5 Problem Solving
2.6 More about Problem Solving

CHAPTER 3 METHODS OF GRAPHING LINEAR EQUATIONS

3 .1 Graphing using the Rectangular Coordinate System
3 .2 Graphing Linear Equations
3 .3 Graphing using Intercepts

CHAPTER 5 EXPONENTS AND POLYNOMIALS

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
5.8 Dividing Polynomials

CHAPTER 6 FACTORING AND QUADRATIC EQUATIONS

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 10 QUADRATIC EQUATIONS

10.2 Solving Quadratic Equations by Using the Quadratic Formula

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
7.8 Proportions, Unit Conversions and Similar Triangles