

## Math 90 – Fall 2016 Syllabus – (Section 3,5,7,8)

Alvin Schuller [aschulle@uwsp.edu](mailto:aschulle@uwsp.edu)

**Sec 3** 10:00 - 10:50 a.m.

**M T R** in CCC 212

**W** meet with tutor in CCC 302

**Sec 5** 11:00 - 11:50 a.m.

**M T R** in CCC 324

**W** meet with tutor in CCC 302

**Sec 7** 1:00 - 1:50 p.m.

**M T R** in CCC 212

**W** meet with tutor in CCC 302

**Sec 8** 2:00 - 2:50 p.m.

**M T R** in CCC 212

**W** meet with tutor in CCC 302

**Office:** SCI D260

**Cellphone:** 715-572-3995

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

**Office hours:**

Mon : 12-12:50 p.m

Tues : 9-9:50 a.m & 12-12:50 p.m

Thurs: 12-12:50 p.m.

**Office phone:** 715-346-2713

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

**Math 90 - Beginning Algebra:** 3 cr.

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

real numbers, problem solving, graphing, linear equations, exponents, polynomials, factoring, quadratic equations, and rational expressions.

**Text:** Elementary & Intermediate Algebra, 5<sup>th</sup> Ed., by Alan S. Tussy and R. David Gustafson, customized for UWSP.

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

*"...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:

- 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.

**Target Audience:** This traditional section is available for those seeking more explanations and examples. (The hybrid section, however, is meant for students that have a working knowledge of some of the above topics and/or are highly motivated to study independently outside of face-to-face lectures.) Read the websites below and decide for yourself if you'll be a successful hybrid student:

- [http://www.fairmontstate.edu/academics/distancelearning/successful\\_student.asp](http://www.fairmontstate.edu/academics/distancelearning/successful_student.asp)
- <http://www.ion.uillinois.edu/resources/tutorials/pedagogy/studentprofile.asp>

### **Course Format & Expectations: Class Schedule**

- **Monday:** Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section.
- **Tuesday:** Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section.
- **Wednesday:** A UWSP student tutor will be available for assistance on homework as needed. Attendance is expected, especially, if any online homework is not complete at 90% or better. The class will meet in CCC 302.
- **Thursday:** Always face-to-face instruction. Attendance is expected. We will meet in the designated classroom for your section.
- **Attendance:** Regular attendance is expected. Absences for serious illness, family emergencies, or University sponsored activities may be excused, provided you adequately notify the instructor, verbally or by e-mail, **prior** to intended absence or if you provide documentation of an emergency. **Late tests will not be given 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.**

**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 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.

- **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 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 earned during class periods will be 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**
- **Mid-Term Exam:** *date and time* to be announced...
- **Final Exam:** The final is a *written* exam on **Friday, DEC 16, 5:00- 7:00 p.m.** (venue to be announced)

**Exams (cumulative mid-term and final) make up 30% of your grade Grading:**

Grades will be based on the following percentages:

Homework:	25%	93 – 100%	A	73 – 76.99 %	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-	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.

## **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 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 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 90/100 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 above tutoring services.

**The Learning Center Tutoring (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/rightsChap17.pdf>.

## General Course Policies

1. **Tests MUST be ONLY 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.
2. 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.
3. Appeal of grading should be submitted in writing within 5 days of receiving the evaluation.

## Suggestions for success:

- **Be responsible** for your *own learning* and treat it as your current job!
- **Read** the book 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.
- **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..."*

# Math 90 Syllabus

Semester I Fall 2016

ELEMENTARY AND INTERMEDIATE ALGEBRA, 5 EDITION.

**Tussy and Gustafson: MATH 90 College Algebra** 3 cr.

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

Real numbers, Problem solving, Graphing, Linear equations, Exponents, Polynomials, Factoring, quadratic equations, and Rational expressions.

**Prerequisite:** 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 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 and Similar Triangles