

## **Math 107 -11 Syllabus (Fall, 2018)**

**Instructor: Eric Watson**

**Office: B152 Phone: ext. 3183**

**Email: [Eric.Watson@uwsp.edu](mailto:Eric.Watson@uwsp.edu)**

**Office hours: Tuesday and Thursday 9:30 AM to 10:30 AM or by appointment**

**Classroom {A208 Monday, Tuesday, Wednesday, Thursday} 8:00 am to 8:50 am**

**Bulletin description: College Algebra: 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. Prerequisite Math 95 or suitable placement test score.**

**Required Text: Elementary and Intermediate Algebra 5<sup>th</sup> edition, Tussy and Gustafson**

**Disability Statement:** UWSP provides students with disabilities reasonable accommodation to participate in educational programs, activities or services. Students with disabilities requiring accommodations to participate in class activities or meet course requirements should contact me as early as possible. 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 6<sup>th</sup> floor of Albertson Hall (library) as soon as possible. DATC can be reached at 715-346-3365 or [DATC@uwsp.edu](mailto:DATC@uwsp.edu).

### **Teaching Methods:**

- I will use a variety of methods to teach this course including traditional lecture, class discussion, and presentation of videos.
- A variety of assignments will be used for application of the material including objective quizzes, tests, and a final exam.
- No phones and phone calculators are to be used with the course.
- **Calculators: You may use any four-function, scientific, or graphing calculator,**
- **Invalid 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)).**
- **A113 Math room where you can go for help.**

## Course Objectives/Student Objectives:

As a result of being enrolled in this course, students will be exposed to information that covers the following topics. Thus, students will be expected to demonstrate an understanding of the following:

- ❑ To be able to solve absolute value equations and inequalities.
- ❑ To be able to factor polynomials using various methods.
- ❑ To know to rules for exponents and apply them.
- ❑ To be able to add, subtract, multiply, and divide rational expressions and equations.
- ❑ To be able to graph and solve exponential and logarithmic function equations.

## Student Expectations:

It is expected that you will attend class, read the chapters in a timely fashion, and actively participate in your own learning. However, I do not grade on attendance, or dramatic improvements in your test scores.

I also expect that you will let me know when I am not clear, or you are having difficulty understanding the material. Silence will be interpreted as “understanding.” I view learning as a partnership among the students and the instructor. We can also benefit from each other, and we all have valuable contributions.

## Special Assistance:

Please let me know early if you are having difficulty with the course content. We can arrange to meet as often as needed or use a math tutor via the department.

## Getting the most out of the course:

Studying and learning styles are very personal. Use your personal skills to get the most out of this course.

## Approximate Points Available for the class

Test 3 @ 100 approximately points each.....300  
Quiz 2 @ 42 approximately points each .....42  
Other class work including assignments, pop quizzes.100  
Total class points will be approximately 440- 540

## Grading Scale:

A: 95-100%	A-: 91-94%	B+ 87-90%	B 84-86%	B- 80-83%	C+ 77-79%
C 74-76%	C-: 70-73%	D+ 67-69%	D 64-66%	D- 62-63%	<62% = F.

**\*I will consider “rounding up” if you are within .05 of the next highest grade AND actively participated in class, attended regularly, etc.**

### **Tentative Outline:**

The instructor reserves the right to adjust the outline according to the needs of the class. This information will be communicated either in class or via email. Note that chapters roughly correspond to one week of class time. I attempt to adhere to the sequence of topics presented in each chapter during class discussion/lecture. I will use canvas for all assignments and grades.

CH 8	Oct 29, 30, 31, Nov 1	8.4 Solving compound inequalities 8.5 Solving absolute equations and Inequalities 5.1 Rules for exponents 5.2 Zero and negative exponents
CH 5 & 9	Nov 5,6, 7, 8	9.2 Rational exponents 6.1 Greatest common factor and grouping 8.6 & 8.7 Factoring methods <b>Test</b>
CH 6, 7, 8	Nov 12,13, 14, 15	7.1 Simplifying rational expressions 7.2 Multiply and divide rational expressions 7.3 Adding and subtracting with like denominators 7.4 Adding and subtracting with unlike denominators
CH 7	Nov 19, 20, 21, 22	7.5 Simplifying complex fractions 7.6 Solving Rational equations <b>Test</b> Thanksgiving break
CH 8 & 11	Nov 26, 27, 28, 29	8.2 Functions 8.3 Graphs of functions 11.1 Algebra and composition of functions 11.2 Inverse functions
CH 11	Dec 3, 4, 5, 6	11.3 Exponential functions 11.4 Logarithmic functions <b>Quiz</b> 11.5 Base e and logarithmic functions
CH 11	Dec 10, 11, 12, 13	11.6 Properties of logarithms 11.7 Exponential and logarithmic equations <b>Test</b> Review for exam
All chapters	Dec. 17th	<b>Monday Dec. 17<sup>th</sup></b> <b>Final will cover Chapters 5,6,7,8, 9,11.</b>

**Professional Behavior in the Classroom: Laptops and cell phones are not allowed. Turn you cell phones OFF and put them out of sight. If you have an emergency and need your cell phone let me know before class. Cell phone use is rude and distracting and associated with poor academic performance**

**<http://www.medicalnewstoday.com/articles/269882.php>**

**[http://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=1595375](http://papers.ssrn.com/sol3/papers.cfm?abstract_id=1595375)**

**<http://www.degruyter.com/view/j/sigtem.2011.4.issue-1/v10195-011-0039-0/v10195-011-0039-0.xml>**

**I also find it rude and distracting when students are obviously attending to material not related to this class; this includes reading other books, writing in planners, and sneaking looks at cell phones, etc. **If you don't want to be in class, don't come.** I will also stop class and ask you to put your cell phone, planner, etc., away if I do see it in use.**