Math 90 Syllabus (Spring, 2021)

Instructor: Eric Watson
Office: SCI B227 Phone: none Email: erwatson@uwsp.edu
Office hours: 9:00 AM – 9:45 AM Monday, Tuesday.
Classroom {DUC 230D Monday, Tuesday, Wednesday, Thursday} 10:00 AM to 10:50 AM
{DUC 230D Monday, Tuesday, Wednesday, Thursday} 11:00 AM to 11:50 AM

Bulletin description: Math 90, Beginning Algebra. 3 cr. Real numbers, solving linear equations, exponents, polynomials, rational expressions. Algebra for those with low placement test scores who need practice in fundamental math skills. Does not count toward a degree.

Required Text: Elementary and Intermediate Algebra 5th 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 6th floor of Albertson Hall (library) as soon as possible. DATC can be reached at 715-346-3365 or 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))**

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 Simplifying Algebraic Expressions using Properties of Real Numbers.**
- **To solve equations and inequalities.**
- **To Graph Linear Equations and Inequalities in two variables and three forms.**
- **To be able to add, subtract, multiply, and divide polynomials.**

- **To be able to factor trinomials.**
- **To be able to use the quadratic formula to solve quadratics with rational values.**

Student Expectations:

It is expected that you will attend class, read the chapters in a timely fashion, and actively participate in your own learning. I will give you 1 point for each day for on attendance.

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. I suggest taking notes, doing daily work.

Approximate Points Available for the class

Test 4 & Exam@ 100 approximately points each….500.
Quiz 3 @ 42 approximately points each …….126.
Other points including attendance and WebAssign.….158.
Total class points will be approximately 784.

*Missing a test or quiz without documentation will result in a zero score.

- If you miss a test or quiz I expect documentation before I let you make up the test by going to Math Office SCI B246, hours 8-4 M-F. Documentation includes a receipt or paper from the doctor, hospital, emergency room, coach, tow truck operator, day care provider that confirms your excuse. I will need your excuse plus another paper or email confirming the excuse.

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 .5 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. I attempt to adhere to the sequence of topics presented in each chapter during class discussion/lecture.

CH 1	**January 25,26,27,28**	1.1 Language of Algebra 1.2 Fractions 1.3 The real numbers Lab day

CH 1	**February 1,2,3,4**	1.4 Adding real numbers. 1.5 Subtracting real numbers. 1.6 Multiplying and Diving real numbers. Lab Day
CH 1	**February 8,9,10,11**	**Quiz sections 1.1 to 1.6** 1.7 Exponents and order of operations 1.8 Algebraic Expressions Lab day
CH 2	**February 15,16,17,18**	1.9 Simplifying Algebraic expressions using Properties of real numbers. **TEST 1 on Chapter 1** 2.1 Solving Equations using the properties of equality. Lab day
CH 2	**February 22,23,24,25**	2.2 More about solving equations. 2.3 Applications of percent 2.4 Formulas Lab day
CH 2, 3	**March 1,2,3,4**	2.5 Problem solving 2.6 More about problem solving. Lab Day **Test Ch 2**
CH 3	**March 8,9,10,11**	3.1 Graphing using the rectangular coordinate system. 3.2 Graphing linear equations 3.3 Intercepts Lab Day
CH 5	**March 15,16,17,18**	**Quiz on CH 3** 5.1 Rules for exponents – Last class before spring break 5.2 Zero and negative exponents Lab day – SPRING BREAK
CH 5	**March 29,30,31,1**	5.3 Scientific notation 5.4 Polynomials **Lab day** **Quiz on CH 5**
CH 5	**April 5,6,7,8**	5.5 Adding and subtracting polynomials. 5.6 Multiplying polynomials 5.7 Special Products. Lab day
CH 6	**April 12,13,14,15**	5.8 Dividing polynomials **Test Chapter 5** 6.1 Greatest common factor, factor by grouping Lab day
CH 6	**April 19,20,21,22**	6.2 Factoring trinomials $x^2 + bx + c$ 6.3 Factoring trinomials $ax^2 + bx + c$ 6.4 Factoring Perfect-Square Trinomials and difference of two squares Lab day
CH 6, 10, 7	**April 26,27,28,29**	6.6 A factoring Strategy 6.7 Solving Quadratic Equations by factoring **Lab day** **Test CH 6**
CH 7, 10	**May 3,4,5,6**	9.7, 10.2 Complex Numbers 10.2 The quadratic formula 7.1 Simplifying rational expressions. Lab day
CH 7,10	**May 10,11,12,13**	7.8 Proportions and similar triangles Quiz Review for exam Lab day

All chapters		**Final will cover Chapters 1,2,3,5,6,7,10.** **Final Exam on Monday May 17th 5-7 pm, unknown if it will be in class or online canvas.**

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://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.

Guidance to Faculty and Instructors Regarding Face Coverings in the Classroom

Course Syllabi – The following standard language should be included in all course syllabi:

Face Coverings:

- At all UW-Stevens Point campus locations, the wearing of face coverings is mandatory in all buildings, including classrooms, laboratories, studios, and other instructional spaces. Any student with a condition that impacts their use of a face covering should contact the Disability and Assistive Technology Center to discuss accommodations in classes. Please note that unless everyone is wearing a face covering, in-person classes cannot take place. This is university policy and not up to the discretion of individual instructors. Failure to adhere to this requirement could result in formal withdrawal from the course.

Other Guidance:

- Please monitor your own health each day using this screening tool. If you are not feeling well or believe you have been exposed to COVID-19, do not come to class; email your instructor and contact Student Health Service (715-346-4646).
    - As with any type of absence, students are expected to communicate their need to be absent and complete the course requirements as outlined in the syllabus.
- Maintain a minimum of 6 feet of physical distance from others whenever possible.
- Do not congregate in groups before or after class; stagger your arrival and departure from the classroom, lab, or meeting room.
- Wash your hands or use appropriate hand sanitizer regularly and avoid touching your face.
- Please maintain these same healthy practices outside the classroom.

Enforcement – Suggested Language for Discussing Requirement with Students

- Day 1/Week 1: Review language in syllabus. Remind students that face coverings have been required by the university's administration in all classrooms and buildings. They are mandatory based on the advice of medical professionals because, combined with physical distancing and other measures, they help protect both the health of others and the person wearing the face covering. Remind students that if they cannot wear a face covering due to their own health concerns, they should contact UWSP's Disability and Assistive Technology Center to seek a formal accommodation.
    - Flexibility may be required in the early days of the semester as the campus community adjusts to this requirement.

- After Day 1:
    - As necessary or when it feels appropriate, continue to remind students that we are all in this together and that face coverings are required in all buildings, classrooms, labs, and meeting spaces; physical distancing, hand washing, etc. are important for everyone to do. Don't shy away from mentioning how weird this experience is for everyone and thank them for helping to keep us all safe and healthy, at school and in the classroom.
    - If a student is not wearing a face covering, it would be best to quietly check to see if they forgot it or whether there is a health-related concern preventing them from wearing a face covering. If so, refer them to UWSP's Disability and Assistive Technology Center to seek a formal accommodation.
    - If a student forgets a face covering: "In this building you can go to [see office list for each building/campus location] to pick up a disposable single-use face covering. Please do so now before class starts" OR "Feel free to return to your room/car/apartment to get yours. They are mandatory in all classrooms."
    - If a student refuses to wear a face covering: "You have the option to participate in class remotely/online. I will need you to please leave the classroom. By university policy, I'm not allowed to begin class unless everyone is wearing a face covering. You are welcome to return when you're willing to wear a face covering."
    - If a student then refuses to leave, consider taking a 5-10 minute break so that the instructor and student can speak privately, and hopefully deescalate the situation: "Unfortunately, if you refuse to wear a face covering and you refuse to leave class, my only option is to cancel today's class for everyone and report this to the Dean of Students. This will begin a disciplinary process, one result of which may be that you are officially withdrawn from this course. At a minimum, the university will not allow you to attend future classes in person if you are not wearing a face covering." [Faculty/Instructor should report this to the Department Chair, Registrar, and the Dean of Students (General Incident Report form)]
        - At this point, the Dean of Students office will contact the student for a conversation.
        - If the student is willing to wear a face covering, he/she will be permitted to return to class. If not, he/she will either attend online or be withdrawn from the class depending on the circumstances and the result of the disciplinary process.
    - If a student, having been instructed not to attend the next class in person still comes to the classroom, the faculty/instructor should consider repeating the steps above, including canceling the class again.