WELCOME to MATH 101

You will be successful in this course if you....

Are Self-Motivated & Work Hard
Learning mathematics takes a lot of practice and work. Recall, CWU policy states **"one credit represents a total time commitment of three hours each week of the quarter. A regular load of 15 credits requires 45 hours of work per week. The total time includes class time, studying, conferring with the instructor, writing, performing laboratory work, exercising, or performing any other activity required of students."** Thus, you will be expected to spend 8-10 hours a week studying for this class (2-3 hours a night).

Check your email and the course website regularly! You are expected to keep track of all your responsibilities.

Look for alternate ways of solving the same problem.
In this class it is not enough to just get the answer. I want you to develop a deeper understanding of mathematical ideas so you can be a more versatile problem solver. People who can work flexibly, who can see more than one way to solve a problem, and who can make judgments about what might be best for a particular situation, have an advantage in almost every field from engineering to law, journalism and dance. You may have learned how to solve a problem one-way from your past instructors. If you can also master a different way of solving the same problems in this class, you will gain flexibility in your mathematical abilities.

Participate actively in group-work and class discussions
Each class will be designed to engage you in learning. You will often work in small groups to provide opportunities for each student to talk about the mathematics in the lesson. A part of building understanding is being able to describe what you are thinking and explain your reasoning. You will also need to listen to and critique the reasoning of other students – in a respectful manner. You will be asked to turn in something in each day – either a quiz, a worksheet, or possibly something else. This is so you can receive lots of feedback and adjust your studying accordingly.

Ask Questions
Sometimes students are shy about asking questions because they are afraid they will look "*stupid*." In this class your questions will be valued! The class will be effective for you and your classmates when everyone participates actively, asking questions and probing deeper into ideas. Talking about mathematics helps you learn it better! You will be assigned online homework every class and it will be due two days later. This means you have a day in-between to ask questions in office hours, with a tutor or with classmates.

Believe in yourself and your ability to do math
It's a common myth that some people are good at math and some are not. In reality, there are several skills that go into doing mathematics well, and these skills can be practiced and improved. Your instructor can help you identify your strengths, as well as your challenges in doing math. We will work together to improve these challenges. In this class, everyone can develop the skills and the confidence to do math!

Math 101: Mathematics in the Modern World   Fall 2017 Syllabus

This course introduces students to selected topics from the historical development and applications of mathematics together with their relationship to the development of our present society.

At the end of the Math 101 course students will have a stronger understanding of …
1. *Using numbers and quantities*
2. *Percent and percent change*
3. *Measurement and Indices*
4. *Linear and Exponential Growth*
5. *Graphical Interpretation and Production*
6. *Counting, Probability, Odds, and Risk.*
   a. How to "speak math", and
   b. How to use logic to justify mathematical ideas.

In addition, in this class you will learn …
1. To apply appropriate technology to solve problems;
   a. Be able to use a graphing calculator to intelligently extract information regarding functions is critical.
2. Working cooperatively with others;
3. Problem solving skills,
   a. Describe the methods used to approach a problem;
   b. Read and understand complex mathematical problems;
   c. Model phenomena mathematically;
4. How to express solutions in written and oral form.

General Course Information

Instructor: **email**   **office**
Dr. Brandy Wiegers brandy.wiegers@cwu.edu   Bouillon Hall 108D

The best way to contact the instructor is at office hours or via email.
Expect a 12-24 hour delay in response. If you haven't received a response within 24 hours of the original email please contact the professor again.

Section 002 Class Times: T/Th 1:00-2:15 pm, **Location:** Randall Hall 200
                         Fri   1:00-2:40 pm, **Location:** Randall Hall 215

Office Hours: TBA
Additional office hours are always available via appointment, just email the instructor.
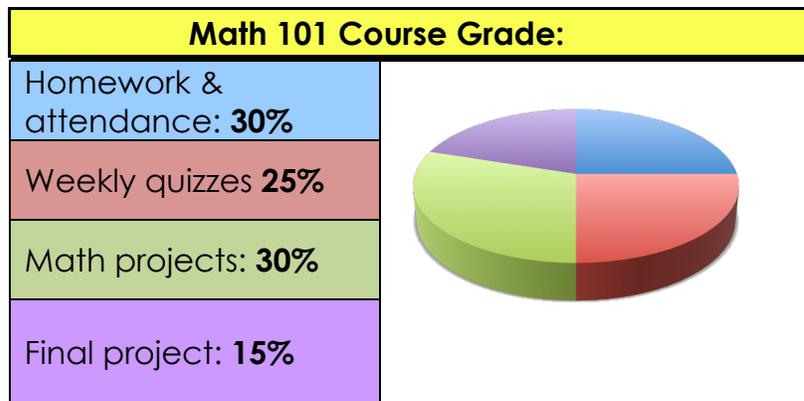
Required Course Materials:
Textbook: *Case Studies for Quantitative Reasoning, 3rd Edition by Madison, Boersma, et al.* *You should read the book. The examples in the text will supplement those given in class and the discussion and examples given in the text will provide reinforcement for material presented in class.*

Calculating Device: *Some form of calculator or spreadsheet tool will be useful for homework. I recommend spreadsheet.google.com or http://desmos.com to help with these aspects. Scientific calculators will be provided for the quizzes.*

Syllabus Changes: *I reserve the right to change the policies contained in this syllabus as dictated by developments during the quarter.*

Course Requirements and Grading Standards

Math 101 Course Grade:	
Homework & attendance: **30%**	
Weekly quizzes **25%**	
Math projects: **30%**	
Final project: **15%**	

Calculating Your Grade:
To track your progress in this course you should be comfortable calculating your own grade. Create a personal class folder to collect all your coursework. These will be needed to calculate your grade and will be useful when reviewing prior to quizzes.

> *Homework and attendance:*
> *Assignments will be collected daily in class and via Canvas.*

This class is most effective when you do small amounts of work to gain knowledge over the course of the ten-week quarter. To support that growth there will be daily assignments assigned via Canvas. The worksheets will be about the process, the logic, and the justification – not the answer! Try your best and bring your questions to class.

Assignments will be graded for completion.
- o   10 points for a completely attempted assignment
- o   5 points for some attempts/ turned in late.
- o   0 points for assignments not turned in.

The class time has been setup to optimize the opportunity to do in-class work. If you are not present, you will miss the opportunity to support others in your group with your thoughts on how to approach the problems. Thus attendance will be taken daily. There are no make-ups for in-class assignments. The 5 lowest scores will be dropped to make up for personal absences. Keep in mind that not doing handouts during class (sleeping, Facebook, texting) or leaving as soon as they are given will result in point loss.

Note. All written assignments must be written in clear handwriting or typed. If your instructors cannot read your work, they cannot grade it. *You will get a zero on the assignment if it is illegible, is not stapled together, has frizzy edges, or does not have your name on it.*

Weekly Quizzes: Thursdays

Quizzes will be based on recent sections that we covered in class lectures, the textbook, and other class materials. Scientific calculators will be provided for the quizzes. Graphing or other multi-function calculators will not be allowed.

Be aware that you will receive more partial-credit on quizzes for showing work. USE **#SELFIE**: Show your work, Estimate the answer, Look for careless mistakes, Find multiple solutions, Include math vocabulary, Explain your thinking.

Quizzes will be returned on Friday and can be submitted with corrections on Tuesday at the start of class. To receive up to 50% points back corrections must be correct and must include 2-3 sentences of the knowledge gained when the corrections were made.

A missed quiz will be given a zero. The only exceptions to this will be made completely at the discretion of the instructor and will only be granted for serious and compelling reasons. Please contact me ASAP to ensure the likelihood have having your issue taken seriously.

Final Project

Multiple projects will be assigned for work throughout the quarter to support your understanding of the topics discussed in class.

Additional details will be provided in class and via Canvas.

Math Projects

The Math 101 final will be held Wednesday, **December 6th, 2:00 - 4:00 pm**
Note: You must be present at the final. Add it to your calendar now.

Additional details will be provided in the class and via Canvas.

Final Grade

Final grades will be computed by assigning weights to homework, class work, projects, and weekly quizzes, as described above. The following table reflects the planned letter grade for the course structure.

Total Percentage	93-100	90-92	87-89	83-86	80-82	77-79	73-76	70-72	67-69	63-66	60-62	0-59
Grade	A	A-	B+	B	B-	C+	C	C-	D+	D	D-	F

University Policies

Religious Holidays: Reasonable accommodations will be made for you to observe religious, holidays when such observances require you to be absent from class activities. It is your responsibility to inform the instructor during the first two weeks of class, in writing, about such holidays.

Academic Integrity: While completing this course you must follow the CWU Student Code of Conduct which is defined by Washington State. Please be reminded that the Washington State Legislature defines Academic Dishonesty in all its forms including, but not limited to the following:
  - Cheating on tests.
  - Copying from another student's test paper.
  - Using materials during a test not authorized by the person giving the test.
  - Collaboration with any other person during a test without authority.
  - Knowingly obtaining, using, buying, selling, transporting, or soliciting in whole or in part the contents of an unadministered test or information about an unadministered test.
- Bribing any other person to obtain an unadministered test or information about an unadministered test.
- Substitution for another student or permitting any other person to substitute for oneself to take a test.
- "Plagiarism" which shall mean the appropriation of any other person's work and the unacknowledged incorporation of that work in one's own work offered for credit.
- "Collusion" which shall mean the unauthorized collaboration with any other person in preparing work offered for credit.
http://app.leg.wa.gov/WAC/default.aspx?cite=106-120-027

Support Services/ Accommodations: *Central Washington University is committed to creating a learning environment that meets the needs of its diverse student body. If you anticipate or experience any barriers to learning, students should discuss their concerns with the instructor. Students with disabilities should contact Disability Services to discuss a range of options to removing barriers, including accommodations. Student Disability Services is located in Hogue 126. Call (509) 963-2214 or email ds@cwu.edu for more information.*

Please let me know if you need accommodation, I am glad to work with you to provide this support!

Incompletes: The College Policy on Incompletes states that Incompletes are used when the student was not able to complete the course by the end of the term, but has satisfactorily completed a sufficient portion of it and can be expected to finish without having to re-enroll in it. In this course, students who have not completed substantial coursework should not assume that they will be "given" an incomplete at the end of the semester. If you have concerns about this you should talk to the course instructor and your academic advisor.

Important Dates:
Sept 26   **Change of Schedule Period Ends (Add/Drop classes)**
                Drops completed prior to this date or by the close of business on this date will not appear on transcripts or have tuition assessed
Sept 26   **Deadline to declare audit & credit/no credit grading.**
Nov 3   **Uncontested withdrawal period deadline**
Nov 10   **Memorial Day (observed)– No class will be held.**
Nov 22-24   **Thanksgiving Recess- No class will be held.**
Dec 1   **Withdrawal from classes or university. Not permitted except for "serious and compelling reasons."**