

Math 101.002: Math in the Modern World

Meeting Daily 9:00 – 9:50 in Bouillon 102

Instructor: Tim Brown

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Office: Bouillon 117

Office Hours: 2-3 PM Daily (*and by arrangement.*)

Course info on Canvas website

Description: Math in the Modern World is a course which explores a variety of math applications average people run into. The topics we cover will include finance, analyzing units, uses of percentages, linear and exponential growth patterns, and voting and apportionment, as well as potentially student-generated topics. You will be expected to apply skills and ideas to problem-solving scenarios in addition to simply learning procedures.

Time: The general rule of thumb for college is 2 hours outside of class for each hour in class. Expect to spend 10 hours per week besides class time to be successful (some may need more, some less....) You choose to succeed or not largely by how you choose to spend time and energy. Plan ahead and make sure you have time available.

Expectations:

Uni-tasking! The (lost) art of doing one thing at a time, focusing, and doing it well. Turn off your phones, ipods, ipads, cortical implants, etc. during class... She will still love you in 50 minutes. The candy will still need to be crushed. Some people will still call him Maurice. Your friends will still have “words” with you ☺. If you are here, be truly here.

Attendance, participation, homework. People who consistently show up, do their work, and get help as needed pass my classes. This isn't a separate policy, it just works out that way. Be here, pay attention, ask questions, do your work, and you will succeed. If you must be gone, you are responsible to access my canvas website for information, and keep up with the work. Absences hurt your grade in several ways:

- You miss your best opportunity to learn the material and/or ask questions
- You will miss in-class activities, which you may not be able to make up
- You may waste a quiz retake opportunity
- You will miss getting your perfect practices checked in a timely manner – and be unsure what the expectations are in terms of showing work, labelling, etc.

Respect yourself: Believe your education is important enough to put forth the effort. Your future is worth investing in.

Respect others (real or simulated respect) – me, classmates, the school, etc. In order to create and sustain a safe and inclusive environment for learning, we have a shared responsibility to treat each other with dignity and respect. Mutual respect and nondiscrimination includes freedom from sexual harassment. Honesty is also absolutely essential.

Materials:

- A scientific calculator is required. Smart phone apps will not do, as you can't use a phone during quizzes and tests (hopefully for obvious reasons). If this is a problem, come see me.
- Text: Using and Understanding Mathematics: A quantitative reasoning approach 6th edition by Bennett and Briggs.

Grading:

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|-------|--------------------------|----------------|
| ○ 20% | Final Exam | 90% - 100% = A |
| ○ 50% | Quizzes/ Major projects | 80% - 90% = B |
| ○ 20% | Homework/ Minor projects | 70% - 80% = C |
| ○ 10% | Scavenger Hunts (3) | 60% - 70% = D |

+ and – grades apply if your score is within 2%.

Homework

- Assigned almost every day, and needs to be done that day. Selected problems may be checked in class the next day. A homework packet is **due every Friday**, generally including work up to the previous Wednesday or Thursday. No late work will be scored. Each section of your homework should be clearly headed with your name & the assignment name. Homework must have problems in order, clearly labeled, with work shown in the manner prescribed in class. Answers without supporting work are generally worthless. I typically select sample problems to score for accuracy, and give completion points for the rest of the assignment.
- Guided Class Notes and activities are part of the weekly homework packets. Some activities require attendance and can't be made up.
- Perfect Practices are part of the homework packets. These are short exercises you do in class, and keep correcting until they are perfect, at which point I stamp them. You must have your perfect practices stamped by Thursday, to get credit when you turn the homework packet in on Friday.
- Projects: Scoring criteria will vary from project to project. Some will be short, and will be entered as a homework grade. Others will be more significant, and will count as quizzes.

Quizzes:

- You will have a scheduled quiz every **Friday**, which covers the material in the homework packet for that week, and may include review questions.
- You may also have **pop-quizzes**, especially if I suspect people aren't doing their reading or homework in a timely fashion.
- Larger project(s) will be graded as quizzes.
- You may make up or retake up to **3 quizzes** this quarter for full credit. You must complete the relevant homework to be eligible for a retake, and you must come see me outside of class – during office hours or by appointment. Deadline for retakes is two weeks after the original was given, or the last day of instruction, (Friday, 6/3) whichever comes first. If you are absent the day a quiz is given, the retake is your only chance at the quiz.

Scavenger Hunts:

- You must complete three times during the quarter, and do a 5 minute presentation on one of your reports. They are **due** on the days you sign up for. I will assign due dates at the end of the first week for those not signed up. Details are given out on the first day, and available on canvas. This is an opportunity for you to identify topics of interest to you, or apply topics we've covered to your world.

Late work: No such thing. I give extra opportunities on some tasks, but when they are due, they are due.

Cheating = Failure. You are always allowed help on homework (“help” is different from “copying”). Projects are usually collaborative efforts. However, quizzes and the final exam are individual efforts unless otherwise specified. You will receive a zero with no chance for make up if you copy, help, hint, check, etc. with a classmate. You will also lose any future make-up or retake opportunities.

Extra Help: Do not hesitate to come see me at my office. My office hours are listed on the front of this page, and I'm available other times by arrangement. We may have math education students who are available for individual or small group tutoring – see me. Also, the University Math Center, located in ARC on the first floor of Brooks library has very generous drop in tutoring hours, and there are “supplemental instruction” course-specific regular study sessions available with a tutor at times TBA. Kahn academy (www.khanacademy.org) has an organized collection of over 2,400 tutorial videos, with special emphasis on math.

Accommodations: If you have a disability and require accommodations for this course please speak with me privately as soon as possible so that your needs may be appropriately met. If you have not already done so, you will need to register with Disability Services (DS). DS is located in Bouillon 140. Call (509) 963-2149 or email cds@cwu.edu for more information.

THE END: There will be regular daily work and review assignments along with a budget project due during the last week of class.

Final Exam: Wednesday, June 8 from 8:00 – 9:50 AM. Exam is cumulative (i.e. covers the whole course).