

Math 173: Calculus 2

Meeting Daily at 11:00 – 11:50 in Bouillon 144 (fall 2016)

Instructor: Tim Brown

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Office: Bouillon 117

Office Hours: 3 - 4 PM Daily (and by arrangement.)

See Canvas through mycwu for info, resources, etc.

Description: Math 173 is a 5-credit course focusing on integral calculus. You need to already have an understanding of limits and competency finding, interpreting, and applying derivatives of a wide variety of functions. In this course, you will calculate, interpret, and apply definite and indefinite integrals. This will include a variety of integration techniques, as well as setting up integrals to represent quantities such as the length of a curve, volume and/or surface area of a solid of revolution, center of mass of a one and/or two dimensional object, amount of work required to complete a task, etc. You will be expected to accurately interpret and communicate your methods as well as your solutions, using words and/or mathematical notations.

Time: The general rule of thumb for college is 2 hours outside of class for each hour in class. Expect to spend 5 - 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. You will be receiving a schedule template to help you plan for success – you will need to block out 15 – 30 hours in your weekly routine for homework.

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. You have to show up, do your work, ask meaningful questions, and get help as needed to succeed. If you must be gone, you are responsible to access my website for information, and keep up with the work.

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. Honesty is an absolutely essential part of that.

Materials:

- A graphing calculator is required. Smart phone apps will not do, as you can't use a phone during quizzes and tests (for what I hope are obvious reasons). A TI-83 Plus or TI-84 plus is recommended, as I can help with those, but other calculators are acceptable if you read your own manual.
- Text: Calculus third edition. by Jon Rogawski and Colin Adams.

Grading:

- | | |
|---------------------------|----------------|
| ○ 35% Quizzes | 90% - 100% = A |
| ○ 10% “Perfect Practices” | 80% - 90% = B |
| ○ 15% Homework | 70% - 80% = C |
| ○ 40% Exams | 60% - 70% = D |
- (10% Test1, 10% Test2, 20% Final) + and – grades apply if your score is within 2%.

Homework is assigned almost every day, and needs to be done that day. This will be a mix of online “webwork” assignments and paper assignments. Attendance and participation are essential, and practicing the skills and concepts promptly is the only way to be confident of success. No late work will be given credit.

Perfect Practices are tasks on which you keep working until they are completely perfect. Once a perfect practice is corrected, it gets stamped. Ideally, this happens the same period, but if you get behind, these can be stamped by the day before the unit test at the latest. You keep it for reference until the next test, when you turn in a packet of them for credit. These exercises are important, as they make sure you are on track all the way through the course, provide you with good examples, and raise important questions in a timely manner.

Quizzes will cover the homework concepts from the previous few days. You can make up or retake up to 3 quizzes for full credit this quarter. Come see me outside of class time with your stamped perfect practices and completed schedule to do a make up/retake. Retakes must be done by the day before the unit test. If you are absent the day a quiz is given, the retake/make up is your only chance at the quiz.

Tests must be taken on the days assigned.

- Test #1 is on Friday; 10/14,
- Test #2 is Thurs, 11/10;
- Final Exam is Thurs. 12/8.

Other times will be arranged only for the direst of circumstances (family funeral is valid if it is your own ☺).

Cheating = Failure. You are allowed help always on homework, and usually on perfect practices. (“Help” and “copying” are two different things!!) Tests, quizzes, and the final exam are individual efforts. You will receive a zero with no chance for make up if you copy, help, hint, check, “access extra resources” etc. You will also lose any remaining chances for quiz retakes or make ups.

Absences will harm your grade in a number of ways

1. You won’t get the best opportunity to learn new concepts & skills, or new applications
2. You will miss quizzes – make-ups count against your 3 make up/retake opportunities.
3. 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.
4. *Occasionally* there may be extra credit available only to those who make it to class.

Extra Help: Do not hesitate to come see me at my office. Frustrations often relate to prior skills you may not realize you are missing. I can help identify and correct those issues. 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 “PALS” course-specific weekly study sessions available with a tutor at times TBA. Kahn academy has an organized collection of over 2,400 tutorial videos, with special emphasis on math. (www.khanacademy.org)

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: Your final exam will be held on Thursday, December 8 from 8 -9:50 AM There will be regular daily work, review assignments, and quiz(es?) due during the last week of class.