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# C A L C U L U S 1 2 0



COURSE SYLLABUS: 2021

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MS Teams <http://teams.microsoft.com/>

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## COURSE CONTENT:

- Limits (average and instantaneous rates of change, definition of derivative)
- Differentiation (rules for differentiation, derivatives of trigonometric functions, applying the chain rule, inverse trigonometric functions, limits and derivatives of exponential and logarithmic functions)
- Applications of Differentiation (curve sketching, optimization, linearization, differentials, related rates)

## GRADE CALCULATION:

- 50% - Tests (or 40% + 10% online mastery quizzes – you choose)
- 25% - Other Assessments
- 25% - Exam

TEXTBOOKS: You will be assigned a textbook and return it at the end of the semester. Cost to replace is ~\$100.

PREREQUISITES: To take this course, you must have already passed Pre-Calculus 120 A & B.

ATTENDANCE: *REGULAR ATTENDANCE IS NECESSARY TO BE SUCCESSFUL IN THIS COURSE!* If you are absent on any given day, then it is your responsibility to catch up on the work you missed.

IN-CLASS MATERIALS: Scientific calculator (2-line display recommended), binder with loose leaf, graph paper, pencils, ruler, eraser. If students have electronic means of note taking (i.e. a tablet or laptop with touch screen) they need to have these with them in class. \*\* Cell phone calculators will NOT be permitted. \*\*

COURSE MATERIALS: Course materials (notes, worksheets, online quizzes, assignments, etc.) will be available through Microsoft Teams.

BLENDED LEARNING: This semester will be an adventure in blended learning for all of us. Both while you are in class with me and home learning through online platforms there will be activities for you to work on. The expectation is that you complete everything assigned to further your learning of the material in this course.

WORKLOAD: Practice questions will be assigned to reinforce the concepts covered in class. This is a critical part of gaining understanding and mastery of the topics taught in this course. Remember, *this is an elective course*, so it is expected that the motivation to keep up with in-class work, as well as out-of-class work, be maintained throughout the semester.

EXTRA HELP: Please plan to get extra help should you need it. Please seek assistance on the first day that you discover that you are having trouble, otherwise the work can become overwhelming. Please book a time for extra help using this site: <https://calendly.com/heather-stewart-5/>