MATH 171: Calculus I – Summer 2020

- **Instructor:** Ralph E. Chikhany
- **Email:** ralph.chikhany@wsu.edu
- **Format:** Hybrid course (includes synchronous time, but mostly asynchronous). We will not meet every day, keep reading for more information.
- **Lecture Meetings:** From 5/11 until 6/19. MTWThF 9:30 am – 10:45 am via Zoom.
  - I reserve the right to make synchronous sessions during any of our regularly scheduled class sessions. There will be at least 75 minutes of weekly real-time lecture sessions, excluding the lab time reserved for quizzes and exams.
- **Office hours:**
  - Virtual office hours sign-up sheet on Blackboard.
  - By appointment: please email and include all your availabilities.
- **Class TA:** Anallely Vazquez Rojas a.vazquezrojas@wsu.edu
  - **Lab Meetings:** Wednesday Friday 12:00 pm – 2:40 pm
    - Labs will not meet at every scheduled time, please check the schedule.
    - Mostly time to get help on HW and take quizzes.
  - Office Hours
    - By appointment: please email and include all your availabilities.
- **Class website:** BlackBoard https://learn.wsu.edu and Pearson MyMathLab

**Course Description**
Course Prerequisite: MATH 106 with a C or better and MATH 108 with a C or better, or a minimum ALEKS math placement score of 83%. Enrollment not allowed if credit already earned for MATH 140, 202, or 206. Differential and integral calculus of one variable with associated analytic geometry. Credit not normally allowed for more than one of MATH 140, 171, 202, 206.

**Required Textbook and Course Materials**
*Calculus: Early Transcendentals 3rd Edition*, by Briggs, Cochran, and Gillett. A hard copy of the text is optional, but you are required to purchase access to the MyMathLab homework system. See Blackboard for access instructions. The code should be valid for 24 months so you can use it in future Calculus courses at WSU if the instructor chooses to utilize MML. Calculator use is not allowed on exams or quizzes, but I recommend you use Desmos for an online graphing calculator if needed on HWs.

**Class Schedule and Updates**
We will not meet during the scheduled hours every day. However, there will be at least 90 minutes of weekly real time interaction. You have a to-do list every week that includes online and written HW to turn it, quizzes to take and real-time sessions to attend. Please check the Blackboard section *What To Do* for more information.
Email Correspondence
Please check your email a couple of times a day. When emailing me, practice professional email etiquette, including complete sentences and correct grammar. I usually reply within a business day. If I don’t and it is an urgent matter, please email again.

Class Conduct
Even though this is a distance delivery course, I expect exemplary in-class conduct and professional attire/behavior during the synchronous sessions. You are to attend on time and stay for the entire class time, otherwise you may be counted as absent. Points may also be taken off for inappropriate conducts that include but are not limited to: Zoombombing, talking randomly in class, leaving early without permission or joining very late. Each time I find improper behavior, you may receive a 1% deduction from the final grade. Cheating or plagiarism of any kind will not be tolerated. If you cheat/plagiarize, you will receive a 0% for that assignment or exam, and additional consequences may be enacted.

Grading Scale

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<tr>
<th>Score Range</th>
<th>Grade</th>
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<tr>
<td>93 – 100%</td>
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<tr>
<td>90 – 92.99%</td>
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<td>70 – 72.99%</td>
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<td>0 – 59.99%</td>
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Incomplete Grades
University policy states that an incomplete grade may be awarded if the student is unable to complete their work on time due to circumstances beyond their control. Please contact me for more information. Requests for incompletes after the final exam will not be considered.

Grading Distribution
Please keep all graded assignments, quizzes, exams, and other work. These will help you keep accurate records of your grades. Office hours are a great time to discuss your grades.

- Learning Catalytics: 10%
- Written HW: 20%
- Quizzes: 20%
- Midterm: 10%
- Online MML HW: 30%
- Final: 10%

Learning Catalytics (10%)
Attendance is expected and required during the synchronous sessions and will be taken frequently via Learning Catalytics. Those will be graded mostly on effort and completion, but also correctness. More information will be provided in lecture on the first day, but you cannot get the grade for those unless you are present and active at the time when they are administered. Your highest 5 Learning Catalytics scores will each count for 2% of your final grade. Thus, no make-ups will be given, no exceptions*.

Quizzes (20%)
You are required to take at least six quizzes, and highest 5 will each count for 4% of your final grade for a total of 20%. Those will be administered via MyMathLab during scheduled lab sessions. You can find the date of the quizzes on the class schedule on Blackboard. No calculators, notes or books are allowed. Quizzes are typically 30 minutes long and reflect exercises and problems appearing in the videos and on the online/written HW. No make-up quizzes are given, no exceptions*.
Online My Math Lab HW (30%)
Online homework is done using My Math Lab (MML). Instructions for registering for MyMathLab are given on Blackboard. There will be 2 weekly MML HW assignments, typically due by 12 pm on Wednesdays and Sundays. You will get at least 3 attempts on each HW problem. No MyMathLab assignments can be worked on after the due date, no exceptions*. I drop the lowest 2 grades so that your top 10 scores are each worth 3% of your final grade. However, make sure that you do all of the MMLs as they contain the key ideas and problems you need to succeed on subsequent assessments.

Written HW (20%)
There will be 6 written homework assignments with deadlines posted on the course schedule, typically 5 pm on Thursdays. You can find the assigned exercises and due dates on Blackboard. Please upload the HW by 5 pm via Blackboard. Late assignments will not be accepted, no exceptions*. However, the lowest written HW grade will be dropped. Thus, each written HW is worth 4% of your final grade.

You may consult your classmates or other resources (including the MLC tutors) for ideas on the problems; however, the solutions you turn in must be in your own words and must reflect your own understanding. Your solutions and write-ups will be checked for textual similarities. You may not copy from, reword, or paraphrase another student's work or any other resource material including Chegg or any other resource; such conduct will be treated as a violation of academic integrity. Remember that you will not learn anything by simply copying, rewording or paraphrasing another person's work. You will receive no credit for solely writing the final answer when explanation is necessary. The below homework specifications will be enforced. If the specifications are not respected, points might be deducted, or the homework assignment may not be accepted for grading. Each homework assignment must:

- be legible, have each problem clearly indicated, and labeled with your name
- contain only your final version (write drafts of all homework solutions on scratch paper)
- not have anything crossed out or contain notes in the margins
- have proofs and solutions in which all steps are clearly shown and explained.
- have grammatically correct (including punctuation and spelling), complete sentences
- be written using mathematical terminology and notation correctly
- have final answers in exact forms (do not approximate unless otherwise stated)
- be uploaded in a single PDF file on Blackboard.

Midterm (10%)
There will be a midterm on Friday, May 29th as noted on the schedule. This will be done during lab. The midterm will cover material from Chapters 2 and 3. No early or late midterms are given, no exceptions*.

Final (10%)
There will be a final exam on Friday, June 19th as noted on the schedule. This will be done during lab. The final will cover material from Chapters 4, 5 and 6. No early or late finals are given, no exceptions*.
**Extra Credit**
Extra Credit opportunities will be announced in class (lecture or lab) or via email. Those include (but are not limited to) small problems that cover the material you are working on, critical thinking questions to be answered by the next class session or reflecting on the relation between the material explained and previous material. You can get a maximum of 3% in extra credit.

**Study Assistance**
**Office hours:** I’m here to help! It’s my goal to see you succeed in this class! Please email me to set up a time to meet. Make sure I know who you are by the end of the summer session! The class TA also has MLC hours that you can attend to receive help, especially for homework.
**The book:** The book is recommended because the authors do a great job explaining everything in detail. Each section includes explanations and examples to help guide you. There are also matched problems to each example with the answer at the end of the exercise section for additional practice. Online resources that supplement the book are also available through MyMathLab.
**Tutoring:** Take advantage of free tutoring via the Math Learning Center! Tutoring will be virtual over the summer; more information can be found on [http://math.wsu.edu/mlc/](http://math.wsu.edu/mlc/)

**WSU Academic Integrity**
Academic integrity is the cornerstone of the university. You assume full responsibility for the content and integrity of the academic work you submit. The guiding rule of academic integrity shall be that your submitted work, examinations, reports, and projects must be your own work. Any student who violates the University's standard of conduct relating to academic integrity will be reported to the Office of Student Standards and Accountability and may fail the assignment or the course, depending on the situation of the violation. Cheating is defined in the Standards for Student Conduct WAC 504-26-010 (3).

**Students with Disabilities**
Reasonable accommodations are available for students with a documented disability. If you have a disability and need accommodations to fully participate in this class, please either visit or call the Access Center (509-335-3417) to schedule an appointment with an Access Advisor. All accommodations MUST be approved through the Access Center. For more information, visit [http://accesscenter.wsu.edu](http://accesscenter.wsu.edu). Please make sure to share this information and paperwork with me as soon as you can so you can use your accommodations in class.

*A Note on Exceptions*
I reserve the right to override the “no exceptions” rule on any class policy in extreme emergencies or if you have WSU related documented reasons. However, you need to notify me ahead of time and I may replace a missed grade with the average of your completed work thus far.
Tentative Schedule

For more information on the To Do list, please check Blackboard and the course schedule.

- **Week 1 (Review + Chapter 2):** 5/11-5/17
  - Review
  - Algebraic and Graphical Limits, Continuity
    - Sections 2.1, 2.2, 2.3, 2.4, 2.5, 2.6
  - To Do: Learning Catalytics, quiz, 2 online MML HW, one written HW.

- **Week 2 (Chapter 3):** 5/18-5/24
  - Derivatives: definition, rules, product and quotient rule, chain rule, trig and inverse trig derivatives, logarithmic differentiation.
    - Sections 3.1, 3.2, 3.3, 3.4, 3.5, 3.6, 3.9, 3.10
  - To Do: Learning Catalytics, quiz, 2 online MML HW, one written HW.

- **Week 3 (Chapter 3):** 5/25-5/31
  - Implicit Differentiation and Related Rates
    - Section 3.9, 3.11
  - Review for the midterm
  - To Do: Learning Catalytics, quiz, 2 online MML HW, one written HW, midterm.

- **Week 4 (Chapter 4):** 6/1-6/7
  - Applications of the Derivative: graphing functions, optimization, linear approximations, L’Hopital’s Rule
    - Sections 4.1, 4.2, 4.3, 4.4, 4.5, 4.6, 4.7
  - To Do: Learning Catalytics, quiz, 2 online MML HW, one written HW.

- **Week 5 (Chapter 5):** 6/8-6/14
  - Antiderivatives and definite integrals: rules, areas under curves, substitutions
    - Sections 4.9, 5.1, 5.2, 5.3, 5.4, 5.5
  - To Do: Learning Catalytics, quiz, 2 online MML HW, one written HW.

- **Week 6 (Chapter 6):** 6/15-6/19
  - Velocity and net change, Areas between curves
    - Sections 6.1, 6.2
  - Review for the final
  - To Do: Learning Catalytics, quiz, 2 online MML HW, one written HW, final.