Math 211: Calculus – Summer 2020 Course Syllabus

Course Details
Calculus
MATH 211, Section 001 (5 credits)
Summer 2020

Course Website
https://canvas.wisc.edu/courses/199506

Course Designations
Gen Ed - Quantitative Reasoning Part B
Breadth - Natural Science
Level - Intermediate
L&S Credit - Counts as Liberal Arts and Science credit in L&S

Meeting Time and Location
Lectures: MTWR before 1:00 pm, online lecture recordings
- Students will watch up to 75 minutes of pre-recorded lectures each day. These will be posted in the Canvas website at least 24 hours in advance.
- Note: The scheduled course time for lecture is MTWR 10:20 am – 11:35 am. Attendance during this time is optional. The instructor will be available during this time via Blackboard Collaborate Ultra to answer questions. Exams will be scheduled during this time slot (see below for exam dates and details).

Discussion Sessions: MTWR 1:00 pm – 1:50 pm, online in Blackboard Collaborate Ultra

Instructional Mode
Online

How the Credit Hours are Met
Each week students will watch 5 hours of recorded lectures and attend four 50-minute virtual discussion sessions. This class carries the expectation that students will work on course learning activities (reading, writing, problem sets, studying, etc.) for a minimum of 10 hours each week outside of watching lectures and attending discussion. The syllabus includes more information about meeting times and expectations for student work.

Instructor
Jamie Wyne
Email: jwyne@wisc.edu
Virtual Office Hours: MTWR 10:20 am – 11:35 am (or by appointment), online in BBCU
**Teaching Assistants**

<table>
<thead>
<tr>
<th>Name</th>
<th>Email</th>
<th>Discussion</th>
<th>Discussion Days &amp; Time</th>
<th>Office Hours</th>
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</thead>
<tbody>
<tr>
<td>Carrie Chen</td>
<td><a href="mailto:hchen475@wisc.edu">hchen475@wisc.edu</a></td>
<td>DIS 301</td>
<td>MTWR 1:00 – 1:50 pm</td>
<td>TWR 1:55 – 2:55 pm</td>
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<tr>
<td>Peter Wei</td>
<td><a href="mailto:wei83@wisc.edu">wei83@wisc.edu</a></td>
<td>DIS 302</td>
<td>MTWR 1:00 – 1:50 pm</td>
<td>MTW 11 am – noon</td>
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**Official Course Description**

Essential concepts of differential and integral calculus; exponential and logarithmic functions; functions of several variables. Enroll Info: Primarily for students in pre-business and some social sciences. Students preparing for advanced study in mathematics, physics, engineering, and other sciences should take MATH 221, 222 and 234 rather than MATH 210, 211 and 213. Most students in the biological sciences should take MATH 221. MATH 210 does not fulfill the prerequisite.

**Prerequisites**

MATH 112 or 114 or placement into MATH 211

**Course Learning Outcomes**

1. Apply differential calculus to analyze rates of change, and in particular to model physical and economic phenomena (e.g., derivatives of exponential and logarithmic functions, modeling with linear differential equations, first and second derivative tests for extrema, applied optimization, etc.).
2. Analyze the behavior of functions of one variable, including their asymptotic behavior, local behavior and existence of extrema (e.g., limits, continuity, tangent lines, finding extrema, etc.).
3. Apply integral calculus to analyze the cumulative effects of continuous processes (e.g., difference between indefinite and definite integral, integration by parts, the Fundamental Theorem of Calculus, etc.).
4. Analyze functions of two variables (e.g., partial derivatives, tangent lines to curves, maximization and minimization in two variables, etc.).
5. Successfully perform computations related to limits, differentiation, and integration.
6. Articulate mathematical knowledge and understanding of differential and integral calculus in a written context.

**Grading Breakdown**

In this course, you will be evaluated based on the components described below with their corresponding percentages. There will be no extra credit or bonus points given in this course.

- Homework: 14%
- Midterm Exam 1: 28%
- Midterm Exam 2: 28%
- Final Exam: 30%
**Grading Scale**
The following scores correspond to guaranteed grades in this course. This may change only in a favorable direction.

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<thead>
<tr>
<th>Grade</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>A</td>
<td>90%</td>
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<tr>
<td>AB</td>
<td>88%</td>
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<tr>
<td>B</td>
<td>80%</td>
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<tr>
<td>BC</td>
<td>78%</td>
</tr>
<tr>
<td>C</td>
<td>70%</td>
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<tr>
<td>D</td>
<td>60%</td>
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<tr>
<td>F</td>
<td>less than 60%</td>
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**Textbook**
Brief Applied Calculus, First Edition by Stewart and Clegg (e-text fee of $35.62)
You can access the e-text through the Canvas website by clicking “Engage eText”.

**Technology Used by the Course**
The following are a list of the online services that you will be using for this course.

**Canvas**: This will be the central location for all course materials and information including lecture videos, homework assignments, discussion worksheets, review material, and the weekly schedule. You can access both Blackboard Collaborate Ultra and Piazza through the Canvas website. Link to Canvas: [https://canvas.wisc.edu/courses/199506](https://canvas.wisc.edu/courses/199506)

**Piazza**: This will be the place to post all your questions for this course. The system is highly catered to getting you help fast and efficiently from classmates, the TAs, and myself. Rather than emailing questions to the teaching staff, I encourage you to post your questions on Piazza. Find our class signup link at: [https://piazza.com/wisc/summer2020/su20math211001dhh](https://piazza.com/wisc/summer2020/su20math211001dhh)

**Blackboard Collaborate Ultra (BBCU)**: This is where all discussion sessions and virtual office hours will be held.

**Exams**
Exams will be posted in Canvas. You will start each exam at 10:20 am on the dates listed below and have 75 minutes to complete each exam. You will have up to 30 minutes after the exam to get your work scanned and submitted. Thus, all work must be submitted by 12:05 pm on the day of the exam. Make sure your work is neat and easy to read.

**You may consult your notes or the textbook during the exam. No collaboration is allowed.**

- **Midterm Exam 1**: Thursday, July 2nd 10:20 am – 11:35 am (work submitted by 12:05 pm)
- **Midterm Exam 2**: Thursday, July 23rd 10:20 am – 11:35 am (work submitted by 12:05 pm)
- **Final Exam**: Thursday, August 6th 10:20 am – 11:35 am (work submitted by 12:05 pm)

You must take the exam on the scheduled date. You are required to take the exam during the listed time frame unless you have a valid conflict. If you have a valid reason that you cannot take the exam between 10:20 and 11:35 am, you must inform me by June 25th. In general, there will be no make-up exams, and no one will be allowed to take an exam early, so plan accordingly.
**Homework**

Homework assignments will be posted online in Canvas weekly and will be turned in electronically through Canvas by 7:00 pm on the assigned due date. See the course schedule for a list of due dates. Late homework will not be accepted. You should be working on homework problems daily. Do not wait until the day they are due to begin.

The homework assignments will be problems out of the e-text. Open the e-text via Canvas. Be neat when writing up homework solutions and make sure you submit a clearly readable scan. All homework assignments should be submitted as a single PDF file (if possible). If you do not have access to a scanner, you can download Adobe Scan on your phone. It is an app that allows you to take photos of your work and convert them to a single PDF file.

Homework is meant to be challenging and to push you to learn the material in depth. Do not expect to know what to do immediately. Try hard to solve the problems on your own using only your notes from lectures and the e-text. You can also post questions on Piazza and collaborate with classmates. Make sure the work you hand in is your own.

**Lecture Videos**

Lectures will be recorded ahead of time and posted in Canvas at least 24 hours before the time that they are due. You should finish watching the lecture video by 1:00 pm of the assigned day. This will ensure that you are prepared to participate in the discussion session at 1:00 pm. Make sure to write down detailed notes as you watch the lectures. The advantage of having a recording is that you can pause when you need additional time to write something down and you can re-watch examples if you want to see some material a second (or third) time. If you have a question about a concept or example, mark it and post a question about it in Piazza or meet with the instructor or TA during office hours to discuss it.

**Discussion Sessions**

Attendance/participation in online discussion sessions is essential for success in the course. Your TA will run the discussion sessions. You will typically work through problems from a worksheet during the discussion, working in groups during some meetings. The worksheets will be posted in Canvas.

**ACADEMIC POLICIES & ACCOMMODATIONS:**

**Rules, Rights & Responsibilities**

- To see the Guide’s Rules, Rights and Responsibilities information, refer to [http://guide.wisc.edu/undergraduate/#rulesrightsandresponsibilitiestext](http://guide.wisc.edu/undergraduate/#rulesrightsandresponsibilitiestext).

**Academic Integrity**

By enrolling in this course, each student assumes the responsibilities of an active participant in UW-Madison’s community of scholars in which everyone’s academic work and behavior are
held to the highest academic integrity standards. Academic misconduct compromises the integrity of the university. Cheating, fabrication, plagiarism, unauthorized collaboration, and helping others commit these acts are examples of academic misconduct, which can result in disciplinary action. This includes but is not limited to failure on the assignment/course, disciplinary probation, or suspension. Substantial or repeated cases of misconduct will be forwarded to the Office of Student Conduct & Community Standards for additional review. For more information, refer to studentconduct.wiscweb.wisc.edu/academic-integrity/.

Accommodations for Students with Disabilities
McBurney Disability Resource Center syllabus statement: “The University of Wisconsin-Madison supports the right of all enrolled students to a full and equal educational opportunity. The Americans with Disabilities Act (ADA), Wisconsin State Statute (36.12), and UW-Madison policy (Faculty Document 1071) require that students with disabilities be reasonably accommodated in instruction and campus life. Reasonable accommodations for students with disabilities is a shared faculty and student responsibility. Students are expected to inform faculty [me] of their need for instructional accommodations by the end of the third week of the semester, or as soon as possible after a disability has been incurred or recognized. Faculty [I], will work either directly with the student [you] or in coordination with the McBurney Center to identify and provide reasonable instructional accommodations. Disability information, including instructional accommodations as part of a student's educational record, is confidential and protected under FERPA.” http://mcburney.wisc.edu/facstaffother/faculty/syllabus.php

Diversity & Inclusion
Institutional statement on diversity: “Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background – people who as students, faculty, and staff serve Wisconsin and the world.” https://diversity.wisc.edu/