Course Information and General Policies

Course Description

This course introduces the theory and applications of single variable calculus to science and engineering majors. In broad terms, calculus is the study of limits. After a thorough treatment of the concept of a limit, two fundamental limits are studied extensively: the derivative and the integral. *If advancing to MATH 1080, a final grade of C or better in MATH 1060 is required.*

Prerequisites

To enroll in MATH 1060, a student must have a score of 80 on the CMPT, an SAT Math score of 680, an ACT Math score of 29, or credit for MATH 1060 via AP or transfer credit.

Textbook

The textbook is *Calculus, Early Transcendentals.* by Briggs, et al, 3e. Students are required to have one of the following. These are available through the Clemson bookstore.


Alternatively, the MyLab Math Access Code may be purchased directly from Pearson Education. Students are granted fourteen (14) days trial access before being required to purchase an access code.

*The eTextbook is accessible through MyLab Math. Additionally, you may read the eTextbook by going to [http://pearsonetext.com/](http://pearsonetext.com/) or by downloading the Pearson eText app on your phone or tablet. In both cases, your login is the same as your MyLab Math username and password.*

Calculator Policy

It is not necessary to purchase an expensive graphing calculator for this course. We recommend Desmos which is freely available online. While a calculator can be a useful tool to assist in learning calculus, you must not come to rely on one. The use of calculators on any examination is prohibited.

Required Software and Technology

- All students must have a computer with a webcam, microphone, and a PDF reader.
- All students are expected to have reliable internet access. Students needing assistance with internet access should visit [https://ccit.clemson.edu/working-remotely/](https://ccit.clemson.edu/working-remotely/)
- All students must download Zoom and Respondus Lockdown Browser. Links to download these programs are located on the MATH 1060 course webpage.
- All students must have the ability to scan and upload written work as PDF files. Alternatively, digitally written work on a tablet PC or iPad is acceptable.
Course Modality

This is a hybrid course, meaning there are both in-person and online components. In particular, MATH 1060 will meet in-person three (3) days per week and online one (1) day per week. Students are expected to attend and participate in the online meeting just as they would an in-person meeting. Instructors are under no obligation to provide for online participation during in-person days.

Class Structure

The format of the class meeting may vary depending on the instructor. Refer to your instructor’s section syllabus for details and expectations.

Attendance

The Undergraduate Catalog affirms that, “the academic resources of Clemson University are provided for the intellectual growth and development of students. Class attendance is critical to the educational process; therefore, students should attend scheduled courses regularly if they are to attain their academic goals.” Indeed, attendance is a critical component of academic success. Students are expected to attend each class either virtually or in the classroom. In addition, students should be punctual. Attendance will be taken in Zoom (and in the classroom, when applicable) for the instructor’s records.

Absences

A student is considered absent from class if they do not attend class regardless of the setting (i.e. in-person vs. online). Students are directed to use the Notification of Absence module in Canvas to inform their instructor of any absence (whether anticipated or unanticipated). Students who must miss class should contact their instructor before the missed class for anticipated absences (such as a university function) and as soon as possible (preferably by the end of the day of the missed class) for unanticipated absences (such as illness, emergency, internet issues) to discuss their situation and whether their absence is excused. Documentation may be required for an absence to be excused.

A student with eight (8) or more absences may be withdrawn from the course at the discretion of the instructor.

Instructor Tardiness, Technical Difficulties

In the event that the instructor is late to class, please allow fifteen (15) minutes for the instructor to arrive. After this time period, the class may be considered canceled. If in the event that the instructor encounters technical difficulties during online instruction, please allow fifteen (15) minutes for a resolution of the issues, or until the class meeting is scheduled to end, whichever is shorter.

Late Work Policy

- For assignments completed during the class meeting: In the case of an excused absence, a missed assignment will either be exempted or an extension permitted, depending on the student’s situation. Students with unexcused absences will earn a zero for the missed assignment. To determine whether an absence is excused or not and what arrangements for
missed work are possible, students must contact their instructor. (See the Absences section of these course policies for information on reporting absences.)

- For any instructor-assigned homework and MyLab Math homework: In the case of an excused absence, an extension will be permitted. In all other cases, extensions are at the instructor's discretion. Please note that drops are included in these categories to allow for mitigate the occasional missed assignment.

Rare exceptions may be made to the above rules for major documentable emergencies and illnesses.

Professional Conduct

The Student Code of Conduct states that, "A Clemson student is expected at all times to show respect for civility, community and the rights of others and to exemplify the Clemson University core values of integrity, honesty and respect." All students are expected to conduct themselves in a professional manner. In particular, students may not engage in any behavior which interferes with teaching and consequently the learning opportunities of other students. Students who engage in such behavior will be reported to the Office of Community & Ethical Standards.

Academic Integrity

Below is the official university statement on academic integrity.

As members of the Clemson University community, we have inherited Thomas Green Clemson’s vision of this institution as a “high seminary of learning.” Fundamental to this vision is a mutual commitment to truthfulness, honor, and responsibility, without which we cannot earn the trust and respect of others. Furthermore, we recognize that academic dishonesty detracts from the value of a Clemson degree. Therefore, we shall not tolerate lying, cheating, or stealing in any form.

There is never an acceptable excuse for cheating. In particular, you may not obtain any unauthorized aid while fulfilling the essential requirements of this course. Any student who engages in academic dishonesty will be formally charged through the Office of Undergraduate Studies when, in the opinion of the instructor, there is sufficient evidence that an act of academic dishonesty has occurred. Students who are proven to have engaged in academic dishonesty may receive an automatic F. Refer to the Undergraduate Academic Integrity section of the catalog (http://catalog.clemson.edu/content.php?catoid=16&navoid=478#undergraduate-academic-integrity) for additional information.

Proper Use of Internet Resources

Many resources exist on the internet to assist students in learning. Such resources are Chegg, WolframAlpha, Symbolab, and MathWay, among others. When used properly, these resources can complement regular class attendance, regular studying, visits to office hours, PAL sessions, etc. You must use such resources in an honest manner. In particular, you may not post questions to such websites or copy information and present it as your own on any graded assignment. Doing so will result in academic dishonesty charges.
Grading Policy

The final course grade will be determined by the following weightings.

- Three Common Exams (E1, E2, E3) – 17.5% each
- MyLab Math (MLM) Homework – 10.0%
  - The MLM average is computed with the lowest four (4) scores dropped.
- Classwork (CW) – 20.0%
  - The composition of the section grade is determined by the instructor. Please refer to the section syllabus issued by your instructor.
- Mandatory, Cumulative, Common Final Exam (FE) – 17.5%

Calculation of Final Grade

The final average will be calculated according to the following formula.

\[ 0.10 \times \text{MLM} + 0.20 \times \text{CW} + 0.175 \times (E1 + E2 + E3 + \text{FE} - \min(E1, E2, E3, \text{FE})) + 0.175 \times \text{FE} \]

In this formula, the final exam score replaces the lowest exam score if it improves the final numerical course average. The letter grade is assigned according to a standard 10-point grading scale.

- 90% – A, 80% – B, 70% – C, 60% – D, <60% – F

Note that we use typical rounding. A course average with a decimal part ≥ 0.50 rounds up and < 0.50 rounds down. For example, a course average of 89.50 rounds to 90, 79.42 to 79, etc.

Midterm Grade

On or before October 14th, your instructor will give you a midterm grade, calculated as follows, or as described by the instructor.

\[ 0.70 \times E1 + 0.10 \times \text{MLM} + 0.20 \times \text{CW} \]

Please note that your midterm grade is only an rough estimate of your grade as it includes less than half of the points available in the course. Your final course average could be significantly different from your midterm grade.

Common Unit Exams and Final Exam

There will be three common exams during the semester as well as a common final exam.

<table>
<thead>
<tr>
<th>Exam 1</th>
<th>Exam 2</th>
<th>Exam 3</th>
<th>Final Exam</th>
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<tbody>
<tr>
<td>Wednesday, Sep. 21</td>
<td>Wednesday, Oct. 19</td>
<td>Wednesday, Nov. 30</td>
<td>Monday, Dec. 12</td>
</tr>
<tr>
<td>7:30pm – 9:00pm</td>
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<td>11:30 am – 2:00pm</td>
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An absence from any exam will result in a grade of zero; however, if a student misses an exam for a reason that would qualify as an excused absence and can provide the proper documentation, a make-up test may be permitted if the request is made no later than 24 hours after the scheduled exam. In the case that a make-up for a unit exam is permitted, the make-up must occur after the scheduled exam (preferably on the Thursday or Friday of the same week), but no later than the Tuesday following the scheduled unit exam. If the exam cannot be made up by this date or if a make-up was not permitted, then the final exam score will be used in place of the missing exam score. Note that the final exam score can be used in place of a missing exam score for one exam only.

The use of notes, a calculator, computer, textbook, cell phone, or any other technology is prohibited on all exams.

**Exempting the Final Exam**

Students who exhibit mastery of the course may be excused from the mandatory final exam and earn an “A” in the course. For this purpose, mastery is defined as both an exam average (EA) and a running course average (RCA) greater than or equal to 89.50%, calculated as follows.

\[
EA = \frac{E_1 + E_2 + E_3}{3} \\
RCA = \frac{0.525 \times EA + 0.20 \times CW + 0.10 \times MLM}{82.5}
\]

If both of these values are greater than or equal to 89.50%, then the student earns an “A” in the course and is exempt from the final exam. This criteria is not flexible. There will be no subjective rounding for the purposes of granting exemption – absolutely no exceptions. The instructor will inform such students of their eligibility to exempt no later than 5pm on Friday, December 9. Such students are not required to exempt; however, if the final exam is taken, it will count.

**Exam Format for Fall 2022**

The exam modality (in-person vs. remote) for Fall 2022 is to be determined. Students will be informed no later than August 31, 2022. Regardless of modality, all students will be required to install Respondus Lockdown Browser on their personal computer. Exams in this course are a combination of multiple choice and written (free) response. Written work will be submitted to Gradescope.com for grading. Students will be enrolled in Gradescope by the course coordinator.

**Regrade Requests**

If you think a portion of your exam has been graded incorrectly, you must submit a regrade request within one (1) week from the date that the grades were published on Gradescope. Note that the entire question will be regraded which could ultimately result in a lower score should other grading errors be discovered. After this one-week period, no regrade requests will be considered.

**Calculus Readiness Assessment**

Students will complete the Calculus Readiness Assessment (CRA) on Monday, August 29, before 11pm Eastern. The assessment will take place on Canvas and is designed to gauge individual preparedness for freshman-level calculus as well as a tool for departmental data collection. Students will receive a completion grade for participating in the CRA. The score on the CRA will not be used to impact placement in MATH 1060; however, depending on the score, students may consider dropping to MATH 1040.
General Education Student Learning Outcomes

This course meets the Mathematics general education student learning outcome.

Mathematics: Students will demonstrate mathematical literacy through interpretation of mathematical forms and performing calculations.

Learning Outcomes

Upon completing this course, students will be able to do the following:

1. **Limits and Continuity:** Explain the concept of a limit, apply the \(\varepsilon, \delta\) definition of a limit, evaluate limits involving elementary functions, including indeterminate forms, and apply limits to determine the continuity of a function at a point.

2. **Derivatives:** State and apply the limit definition of the derivative, recognize when a function is not differentiable, and use derivative theorems to calculate derivatives.

3. **Implicit Functions:** Distinguish between implicitly and explicitly defined functions and calculate derivatives for implicit functions.

4. **Derivative Applications:** Use information from derivatives to determine the behavior of a function, solve elementary optimization problems, and determine rates of change in models of physical phenomenon.

5. **Antiderivatives:** Find antiderivatives, use the substitution method to find antiderivatives, and solve elementary initial value problems.

6. **Definite Integral:** State the definition of the definite integral as the limit of a Riemann sum and use properties of summation to evaluate certain definite integrals, including, but not limited to, definite integrals for area under a curve.

7. **Fundamental Theorem of Calculus:** Evaluate definite integrals by finding antiderivatives and demonstrate a working knowledge of the inverse relationship between differentiation and integration.

Topical Outline and Testable Skills

Refer to the daily calendar on the course website for a listing of topics covered in MATH 1060 and the days when they will be covered. Also posted are skills sets for each unit which give a detailed listing of the skills that you are expected to master.

Previous Exams

A collection of previous exams is provided on the MATH 1060 course website as a courtesy to students. These exams are intended to aid you in your study and to give you a feel for the format of an exam; however, these exams are not to be interpreted as “practice exams.” Students should have no expectation that the questions on a future exam will be similar to questions on a previous exam. Each semester, a new exam is written and reviewed by the instructors of the course.
E-mail, Canvas

Instructors often use e-mail to make announcements and distribute course materials. You are responsible for checking your university e-mail account regularly. At least once every weekday is expected. An announcement made via e-mail or Canvas is equivalent to an announcement made in class. In addition, students are responsible for checking Canvas on a regular basis for course materials, assignments, and announcements.

Websites

- [https://mthsc.clemson.edu/ug_course_pages/MTHS1060](https://mthsc.clemson.edu/ug_course_pages/MTHS1060) is the general MATH 1060 site containing this syllabus, a course schedule, instructional objectives/skill sets, announcements, questions and solutions from old exams, and other useful information.

- [https://www.clemson.edu/canvas/](https://www.clemson.edu/canvas/) will be used by your section’s instructor. Students are responsible for checking Canvas (and university e-mail accounts) on a regular basis for announcements and class materials.

- [http://catalog.clemson.edu/index.php](http://catalog.clemson.edu/index.php) has detailed information about Clemson University undergraduate class regulations including academic integrity, attendance policy, mid-term grades, final examinations, and posting of grades.

- [http://www.registrar.clemson.edu/html/fallexam.htm](http://www.registrar.clemson.edu/html/fallexam.htm) has final exam information for all courses.

Course Support

Regardless of variations in class structure, it is ultimately the students’ responsibility to master the objectives of the course. Resources available include the instructor, fellow students, the text, the MATH 1060 website, the section’s Canvas site, the library, on-line resources, Peer Assisted Learning (PAL) sessions, Learning Lab, and Academic Success Center (ASC) Tutors. Dedicated effort and study are needed to master the learning objectives of this course. Students are expected to actively participate in their own learning by reading the book, practicing the testable skills, and seeking help in a timely manner when needed.

Peer-Assisted Learning (PAL)

Peer-Assisted Learning (PAL) sessions are available as a complement to the course lectures. PAL leaders have taken this course in the past and can share tips and tricks for success. Leaders also work closely with course instructors to ensure you are equipped with the right tools to support your learning. PAL sessions are a great way to stay current with course content, ask questions, and learn from other students’ understanding. You can take advantage of this valuable resource by referring to the session schedule on the ASC website ([https://www.clemson.edu/asc/](https://www.clemson.edu/asc/)) then clicking on the orange “Visit PAL Website” icon on the right. You can attend any leader’s sessions that fit your schedule, but you will also get emails and announcements from a specific PAL leader for this course.

Academic Success Center Tutoring

This course is supported by the Academic Success Center tutoring program. The ASC tutors have completed and done well in this course, and they understand the concepts well enough to help you work through questions you have. The ASC tutoring program is certified by the College Reading
and Learning Association (CRLA), which means that our tutors are trained to share learning and study strategies during tutorial sessions. While tutors will not complete/correct homework for you or help you on take-home tests or quizzes, they will help you understand and reinforce concepts that you are learning in your classes. For more information visit, [https://www.clemson.edu/asc/courses/tutoring/index.html](https://www.clemson.edu/asc/courses/tutoring/index.html). To view the complete ASC Tutoring Schedule, visit [https://sites.google.com/g.clemson.edu/asctutoringschedule/home](https://sites.google.com/g.clemson.edu/asctutoringschedule/home).

**Inclement Weather, University Cancellation**

Any exam that was scheduled at the time of a class cancellation due to inclement weather (or any university cancellation) will be given at the next class meeting unless contacted by the instructor. Any assignments due at the time of a class cancellation due to inclement weather will be due at the next class meeting unless contacted by the instructor. Any extension or postponement of assignments or exams must be granted by the instructor via email or Canvas within 24 hours of the weather related cancellation.

**Accessibility and Accommodations**

Clemson University values the diversity of our student body as a strength and a critical component of our dynamic community. Students with disabilities or temporary injuries/conditions may require accommodations due to barriers in the structure of facilities, course design, technology used for curricular purposes, or other campus resources. Students who experience a barrier to full access to this class should let the professor know, and make an appointment to meet with a staff member in Student Accessibility Services as soon as possible. You can make an appointment by calling 864-656-6848, by emailing studentaccess@lists.clemson.edu, or by visiting Suite 239 in the Academic Success Center building. Appointments are strongly encouraged - drop-ins will be seen if at all possible, but there could be a significant wait due to scheduled appointments. Students who receive Academic Access Letters are strongly encouraged to request, obtain and present these to their professors as early in the semester as possible so that accommodations can be made in a timely manner. It is the student’s responsibility to follow this process each semester. You can access further information here: [http://www.clemson.edu/campus-life/campus-services/sds/](http://www.clemson.edu/campus-life/campus-services/sds/).

If you have a letter stating specific testing accommodations to which you are entitled, please transmit a copy to your instructor no later than Wednesday, September 14, 2022. Your instructor will keep you informed as to how your accommodations will handled. *It may not be possible to grant requests for accommodations if the request is made less than one week prior to the exam.*

**Title IX Policy**

Clemson University is committed to a policy of equal opportunity for all persons and does not discriminate on the basis of race, color, religion, sex, sexual orientation, gender, pregnancy, national origin, age, disability, veteran’s status, genetic information or protected activity (e.g., opposition to prohibited discrimination or participation in any complaint process, etc.) in employment, educational programs and activities, admissions and financial aid. This includes a prohibition against sexual harassment and sexual violence as mandated by Title IX of the Education Amendments of 1972. The University is committed to combatting sexual harassment and sexual violence. As a result, you should know that University faculty and staff members who work directly with students are required to report any instances of sexual harassment and sexual violence, to the University’s Title IX Coordinator. What this means is that your professor is required to report any incidents of sexual harassment, sexual violence or misconduct, stalking, domestic and/or relationship violence
that are directly reported to him/her, or of which he/she is somehow made aware. There are two important exceptions to this requirement about which you should be aware:

1. Confidential resources and facilitators of sexual awareness programs such as "Take Back the Night and Aspire to be Well" when acting in those capacities, are not required to report incidents of sexual discrimination.

2. Another important exception to the reporting requirement exists for academic work. Disclosures about sexual harassment, sexual violence, stalking, domestic and/or relationship violence that are shared as part of an academic project, a research project, classroom discussion, or course assignment, are not required to be disclosed to the University’s Title IX Coordinator.

The Title IX policy may be located at [http://www.clemson.edu/campus-life/campus-services/access/title-ix/](http://www.clemson.edu/campus-life/campus-services/access/title-ix/). Ms. Alesia Smith is the Executive Director for Equity Compliance and the Title IX Coordinator. Her office is located at 223 Holtzendorff Hall, phone number is 864.656.3181, and email address is alesias@clemson.edu.

**Campus Safety**

Clemson University is committed to providing a safe campus environment for students, faculty, staff, and visitors. As members of the community, we encourage you to take the following actions to be better prepared in case of an emergency:

(a) Ensure you are signed up for emergency alerts ([https://www.getrave.com/login/clemson](https://www.getrave.com/login/clemson))

(b) Download the Rave Guardian app to your phone ([https://www.clemson.edu/cusafety/cupd/rave-guardian/](https://www.clemson.edu/cusafety/cupd/rave-guardian/)), and

(c) Learn what you can do to prepare yourself in the event of an active threat ([http://www.clemson.edu/cusafety/EmergencyManagement/](http://www.clemson.edu/cusafety/EmergencyManagement/)).

**Disclaimer**

Should conflicting information exist, this document carries precedence over any section syllabus provided by a MATH 1060 instructor.

**Course Coordinator**

Mr. Stephen Peele, O-109 Martin Hall, (864) 656-2625, speele@g.clemson.edu