CALCULUS I
MAT 181, SECTIONS 050 & 070 SYLLABUS
SPRING SEMESTER 2024

PROFESSOR:	Dr. Brooks Emerick
OFFICE:	Lytle Hall 266
EMAIL:	bemerick@kutztown.edu (best way to contact me)
OFFICE PHONE:	(610) 683-4406
COURSE WEBSITE:	*http://www.brooksemerick.com/mat-181*
050-LECTURE:	MTWF 12:00 – 12:50 PM Lytle 214
070-LECTURE:	MTWF 2:00 – 2:50 PM Lytle 226
OFFICE HOURS:	Mon, Tue, and Wed 1:00 – 2:00 PM Lytle 266
	Tue and Thu 10:00 – 11:00 AM Lytle 266
	Thu 12:00 – 3:00 PM Library Book-n-Brew
	or by appointment

TEXTBOOK AND ONLINE SYSTEM:

- Textbook (recommended but not required): Calculus with Early Transcendentals by Paul Sisson and Tibor Szarvas ($\sim$ \$70 used on Amazon).

- Online Homework System (required): *WeBWorK*. This online homework system is free!! The url to our class is below:

  https://postulate.klnpa.org/webwork2/MAT181_Emerick_Calculus_1/

COURSE OVERVIEW: This course is one of a series intended for students who major in mathematics, the sciences, or engineering. The topics include the definition and calculation of limits, continuity and differentiability, differentials, derivatives of algebraic and transcendental functions, the application of derivatives to graphing, antiderivatives, and the introduction of the definite integral, applications of definite integrals; and some techniques of integration. This course will review Chapter 1 and cover Chapters 2, 3, 4, and 5 of the text.

GRADES: Your grade is determined by your participation and performance on homework assignments, quizzes, class exams, and a comprehensive final exam.

1) **Office Hours Attendance (**5%**) –** You have to come to office hours at least twice during the semester. You get the full 5% simply by attending and asking me a question.

2) **Homework (**20%**) –** The homework grade consists of the following components:

   i) 8 Written Problem Sets (10%): There will be two written assignments per exam. Problems may be taken from the textbook or elsewhere. Each assignment is to be hand-written on the problem set packet and uploaded to D2L on the due date (see schedule).

ii) Online *WeBWorK* Lessons (10%): There are four *waves* of online lessons. I will announce in class or through email when a new wave is posted. Each wave will be due at midnight on the class day before an exam (see schedule).

3) **D2L Quizzes (**10%**)** – Online quizzes will be due by midnight on Fridays (see schedule). The quizzes are timed and administered through D2L. There are ten total quizzes. The lowest two quizzes are dropped.

4) **Exams (**40%**)** – There will be three midterm exams, the sum of which will total 40% of your grade (highest score is worth 18%, middle score is worth 12%, and the lowest score is worth 10%). Here is the exam schedule:

   i) In-Class Exam I: **Wednesday, February 14**. To cover Sections 1.1-1.4, 2.2, 2.4, 2.5
   ii) In-Class Exam II: **Friday, March 8.** To cover Sections 2.1, 2.6, 3.1-3.6
   iii) In-Class Exam III: **Friday, April 12.** To cover: Sections 3.7, 4.1-4.7

5) **Final Exam (**25%**)** – Comprehensive final exam is two hours in length and will be held on

   • Section 050: **Monday, May 6** from 11:00 AM to 1:00 PM
   • Section 070: **Friday, May10** from 2:00 PM to 4:00 PM

   Location for the exam is to be determined. The exam will be written and administered in class.

Percentages are subject to minor modification. Any such changes will be communicated to the students in a timely manner.

ATTENDANCE POLICY: I will take attendance in class for the first few weeks so that I get to know everyone's name. There is no attendance grade. If you know that you will not be able to attend class, please notify me beforehand. Absences will be counted as unexcused unless you have a documented illness or emergency. If you miss class on your scheduled day, it is your responsibility to get a copy of the notes for the day, to collect any material that was returned that day, and to arrange to submit any homework by the due date. **Missing class is not a legitimate reason to turn in an assignment late.**

OFFICE HOURS ATTENDANCE: It is required that you attend **at least two** of my office hours. You don't have to stay the whole time, you simply have to come and ask me a question. You must do this twice during the semester, at two separate office hour time slots, in order to receive the full 5% office hour attendance grade. My office hours are listed at the top of this syllabus and on the course website.

WORKSHEETS: I hand out a worksheet and post it on the course webpage almost every day. I will frequently post on the course webpage a listing of blank worksheets for each section that will be covered in the course. These worksheets are NOT graded and they only exist to facilitate the lecture and to provide you with extra problems to prepare you for the quizzes and exams. Next to the link for the blank worksheets will be another link that has the written out solutions. This way, you can check your answers and see the solution written out fully so that you can understand

the methods used to arrive at the answer. The worksheets are posted and handed out in class for your benefit and they are not graded. On Fridays, I will have you work out some of the worksheet problems on the board during class.

WEBWORK ONLINE HOMEWORK: WeBWorK is a free online homework platform. To log onto WeBWorK, click on this *link* or copy and paste the following url into a web browser:

https://postulate.klnpa.org/webwork2/MAT181_Emerick_Calculus_1/

Your username is your email address without "@live.kutztown.edu" and your password is your student ID number including the first two zeros, "00...". Once you are logged in, you can change your password and you will be able to see the homework assignments. Online homework comes in the form of WeBWorK assignments. There will be an assignment for every section covered in the text. The assignments come in *waves* and the waves are due at midnight on the indicated day below:

i) Wave 1: **Tuesday, February 13**. Sections 1.1–1.4, 2.2, 2.4

ii) Wave 2: **Wednesday, March 6**. Sections 2.1, 2.5, 2.6, 3.1–3.4

iii) Wave 3: **Wednesday, April 10**. Sections 3.5–3.7, 4.1–4.6

iv) Wave 4: **Friday, May 3**. Sections 4.7, 5.1–5.5

These deadlines are HARD deadlines. If you do not submit your solutions by the 11:59 PM you will receive a zero on all unfinished sections. The solutions are given the minute after the deadline. For each assignment, you get 10 attempts for each problem. The highest score achieved in ten attempts is your score for that problem.

WRITTEN HOMEWORK: The textbook for this course is structured as a traditional textbook with plenty of workable problems at the end of each section. Online and written assignments will be taken mostly from textbook problems. The due dates for written homework and online lessons are laid out explicitly on the course schedule.

Written problem sets come in the form of a packet, which will be posted on the course webpage and on D2L. Solutions are to be written on the printed out packet and submitted by **11:59 PM** on the indicated day in the schedule. **You must upload your solutions using a photo generated from the GeniusScan app, CamScanner, or other scanning software to D2L by the due date.** Late homework will receive a zero unless there are extraordinary circumstances that can be documented via the Dean of Students office. **Written problem sets are graded on effort, neatness, and completeness.** I will only check to see that you are doing the assignments, giving maximal effort, and writing out solutions in a coherent manner. I will not mark specific problems right or wrong. Each assignment is based out of 5 points. **It is up to you to check your answers with the posted solutions.** Students are encouraged to work together, but each must submit his/her own work. Below are some grading policies concerning the written problem sets:

- If it is unclear to me how you arrived at your solution, parts of the problem are not addressed, or if I cannot follow your work (i.e. it doesn't make sense), you will not receive full credit. (Show all *relevant* work.)

- Poorly drawn graphs, sloppy or poor handwriting, and careless presentation in general may result in a loss of points.

ONLINE QUIZZES: Online quizzes will be administered through D2L. The quiz will be two or three questions in length and it will be timed. You will have 30 minutes to complete the quiz once you begin. The window to take the quiz will be between 3:00 PM and midnight (see schedule for quiz days). The quiz questions may originate from that day's lecture, the worksheet, or it may assess your knowledge of material covered earlier in the week. The format of the quizzes may be multiple choice, multiple selection, or free response. I will typically announce at least a day in advance the material that will be covered on the quiz. The quiz will be graded on correctness. **If you fail to complete the quiz during the window, you receive a zero on that quiz.** There are 10 total quizzes and the lowest quiz is dropped.

EXAMS I, II, AND III: The three regular exams will be administered live in class on the indicated days (dates are above, on the schedule, and on the website). Exams will be administered **in-class** and they are mandatory. The exam will be administered normally. Exams are 50 minutes long during normal lecture hours in **Location to be announced**. **Calculators are not permitted on exams.** You are required to attend in-class exams, unless you have written documentation from the DSO. If you are absent during an exam then you will receive a zero. **Make-up exams are given only in the case of a serious medical problem or emergency documented by the Dean of Students office.** Written documentation of any such situation will be required.

GENERAL POLICIES/IMPORTANT NOTES: I expect the following from you:

- Arrive to the lectures on time with required readings and/or homework completed.

- Do not talk while I'm talking, but do collaborate during in-class activities.

- Be attentive during class lectures and participate in class discussions.

- **Put your cell phone on silent** and do not use it during class.

- **Do not use your laptop during class**.

Failure to abide by these simple classroom rules may affect your grade. You can expect the following from me:

- The course website (*http://www.brooksemerick.com/mat-181*) is maintained regularly. Assignments, solutions, lecture notes, and other course materials will be posted on the website and updated frequently. Before you ask me a question, check the website. Check your emails regularly for announcements.

- I will post grades to D2L.

- If my office hours are inconvenient for you, email me and I will make time outside of class to meet with you to discuss the course material and assignments.

- Graded assignments will be handed back to you in class or feedback will be provided on D2L in a timely manner.

- Do not be afraid to email me about anything. I will try my best to respond swiftly.

- I rarely deviate from the grading scale (shown below).

- I *never* give extra credit to a single person. However, class-wide extra credit opportunities may arise during the semester. (these may be hard to find...check social media or the blackboard in Lytle)

- Feedback on exams and homework will rarely be given during class time. If you have questions about your grade, please come to office hours or email me to set up an appointment to discuss it.

ACADEMIC DISHONESTY: I do not tolerate academic dishonesty. You are required to abide by the Student Code of Conduct outlined in the most recent policies and procedures in the The Key Student Handbook (www.kutztown.edu/TheKey). Violations of the policy will be handled by the Office of Academic Honesty in the Dean of Students Office.

SPECIAL ACCOMMODATIONS: If you plan to disclose a disability to the Disability Services Office (215 Stratton Administration Building) and are seeking accommodations for this course, please discuss this with me during office hours as soon as you can. Accommodations relating to a quiz/homework/exam often take time to arrange; therefore, please make every attempt to discuss the matter with me at least three days before the due date (or quiz/exam date). I cannot take any action retroactively.

GRADING SCALE:

Grade	Percentage
A	[92%, 100%]
A-	[90%, 92%)
B+	[88%, 90%)
B	[82%, 88%)
B-	[80%, 82%)
C+	[76%, 80%)
C	[70%, 76%)
D	[60%, 70%)
F	[0%, 60%)