MATH 1170
CALCULUS FOR BIOLOGISTS
Fall Semester, 2019

Time and Place: MWF 9:40 a.m., JFB B-1
Computer Lab: Tuesdays as assigned in LCB 115
Course webpage: CANVAS on CIS (http://cis.utah.edu)

Instructor: Thuy Le
Email: thuy.t.le@utah.edu
Office: SB 321-B
Office hours: TBD or by appointment

Computer lab leader Kathryn G. Link
Email: link@math.utah.edu
Office: LCB 317
Office hours: TBD or by appointment

Office hours and other aspects of this syllabus are subject to change. All changes will be announced in class or communicated via email.

**The Course.** This course is designed to teach you the essentials of Calculus while targeting the material and examples to information necessary to life sciences. Therefore, you are not only learning Calculus, you will also be learning many of the applications of Calculus to biological fields. The course will cover most of chapters 1-5. *You are expected to read each section that is covered.*

**Computer Labs.** We meet for one hour weekly for a computer lab. Lab assignments are due weekly *on the following Monday at 6:00 p.m.* and account for 15% of your grade. The material covered in labs will be fair game for tests.

**Homework.** Homework will be assigned regularly in class and posted on Canvas. It will be due mostly *on Wednesday the following week at the beginning of class,* but for a full list of due dates see the course website. After that it will not be accepted, no exceptions.

*The only way to keep up with the pace of this course is to solve, at the very least, the assigned homework problems in a timely fashion. Math is best learned through practice, and there is a great emphasis in this course on doing problems.*

**The homework is to be turned in according to the following instructions:**
- It is important that you attempt ALL problems. You will NOT get the full credit if you skip any problem. I will pick randomly a few problems from each section to grade.
- The homework set MUST be stapled together with the corresponding cover sheet as the first page. (I will post the cover sheet on Canvas.) A homework set turned in without being stapled or without a cover sheet will results in a zero.
- For each problem,
  - include the proper heading - i.e. the section and problem number - for each problem.
  - write out each problem statement completely.
  - show all your work and then BOX your final answer.
Exams. There will be three mid-terms, weekly quizzes, and a comprehensive final. No make-up exams will be given.

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<thead>
<tr>
<th>Midterm 1 (Chapter 1)</th>
<th>Monday, Sep 16</th>
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<tr>
<td>Midterm 2 (Chapter 2)</td>
<td>Friday, Oct 04</td>
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<td>Midterm 3 (Chapters 3-4)</td>
<td>Monday, Nov 11</td>
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<td>Final Exam (Chapters 1-5)</td>
<td>Monday, Dec 12, 8:00 a.m. - 10:00 a.m.</td>
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Grading. Grades will be weighted as shown. You can drop your lowest midterm, your lowest two homework assignments, and your worst two quizzes.

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<th>Weight</th>
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<tr>
<td>Each midterm</td>
<td>15%</td>
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<td>Quizzes</td>
<td>10%</td>
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<td>Final Exam</td>
<td>30%</td>
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<td>Written homework</td>
<td>15%</td>
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<td>Computer lab write-ups</td>
<td>15%</td>
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Prerequisites: Mathematics up through pre-calculus, or the equivalent. Students with extensive calculus background will find much that is new in this course, but should consult with the professor before signing up.

Seeking Help: To find help, the students are encouraged to ask questions, to come by during the office hours, schedule an appointment, or visit the no-cost tutoring center of the department of mathematics. The tutoring center is located at the T. B. Rushing Undergraduate Student Center in the basement of LCB. There are also study rooms and computer labs available.

Policy on attendance: Students are expected to attend every class and a lab session. If it is necessary to miss a class, it is the student's responsibility to make-up the missed material.

ADA Statement: The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in the class, reasonable prior notice needs to be given to the Center for Disability & Access (CDA), 162 Olpin Union Building, 581-5020 (V/TDD). CDA will work with you and me to make arrangements for accommodations.

Student Responsibilities: All students are expected to maintain professional behavior in the classroom setting, according to the Student Code, spelled out in the Student Handbook. You have specific rights in the classroom as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, collusion, fraud, theft, etc. Students should read the Code carefully and know you are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, beginning with verbal warnings and progressing to dismissal from class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee.

http://regulations.utah.edu/academics/6-400.php

More on the homework and exams: The homework is assigned to give you practice and to help you identify where you are having trouble so that you can ask for help. Show all your work in the homework and the exams, not just the answers. Make sure that you look over your homework when
they are returned to you, and if you still do not know why an answer is wrong, ask about it. There are other problems nearby the assigned ones that you can use if you need more practice, and the odd-numbered problems have answers at the end of the book.

**A Final Note:** *The best way to learn math is to practice it.* If you have trouble with any of the concepts or the problems, talk to me, talk to the lab TA, or go to the tutoring center. Since ideas will build on each other throughout the semester, it is best to seek help *as soon as possible.*