This course will develop the foundations of differential and integral calculus of several variables, including both scalar and vector-valued functions of several variables. There will be an emphasis on computational skills, but students will also learn the conceptual underpinnings of the theory. The later portion of the course will investigate the calculus of vector-valued functions, which have many useful applications in physics, engineering, chemistry, and many other fields. This includes the powerful and beautiful theorems of Green and Stokes.

Meetings: SCIE 121, TTh 2:40 – 4:00
ISBN: 978-0538497879
Web Page: Moodle
Graders: Emily Black (eblack01 [at] wesleyan [dot] edu)
Lili Borland (lborland [at] wesleyan [dot] edu)
Recitations: TBA

Instructor: Christopher Rasmussen

The quickest way to communicate with me is by email: crasmussen [at] wesleyan [dot] edu. I can also be reached by my office phone (×2315), but please note that I am notoriously bad at checking my voicemail. You may always feel free to make an appointment to see me in my office (Exley 649). My office hours are open for drop in discussions – you do not need to contact me in advance. This semester, my office hours will be **Tuesdays and Fridays, 9:00 – 10:00 a.m.**

Exams:
The course will have two mid-term exams and a final exam, scheduled as follows:

<table>
<thead>
<tr>
<th>Exam</th>
<th>Date</th>
<th>Time</th>
<th>Location</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Midterm 1</td>
<td>Wednesday October 8</td>
<td>7:00 – 9:00 pm</td>
<td>Exley 058</td>
<td></td>
</tr>
<tr>
<td>Midterm 2</td>
<td>Wednesday November 12</td>
<td>7:00 – 9:00 pm</td>
<td>Exley 058</td>
<td></td>
</tr>
<tr>
<td>Final Exam</td>
<td>Saturday, December 13</td>
<td>2:00 – 5:00 pm</td>
<td>TBA</td>
<td></td>
</tr>
</tbody>
</table>

Note that the mid-term exams will be held in the evening. If you have a schedule conflict, please contact me **at least one week in advance** so that we may make alternate arrangements.

Attendance:
Students are expected to attend every class. It is the student’s responsibility to keep informed of any announcements, homework assignments, syllabus adjustments, or policy changes made during scheduled classes. I will do my very best to keep information on the Moodle page up to date. However:

**You are always responsible for any announcements made in class.**
Homework:

It is likely that most of your learning will take place as you complete the homework assignments. This is your chance to practice the material we cover in class. I encourage you to work in groups on the assignments, and seek out help often. However, you should at least first attempt the problems on your own, and each student must turn in an assignment that is written in their own voice. Identical or near-identical solutions, solutions copied from other sources, or solutions which were written using unidentified sources are violations of the Honor Policy, and will be referred to the Honor Board.

Homework will be assigned at every class meeting, and will be due twice a week on Tuesdays and Fridays at 5:00 p.m. You may turn in your homework to me during class, or you may place it in the black folder outside of my office. **Late homework will not be accepted for any reason.**

Your homework grade will be the average of the homework scores from the individual assignments. Your two lowest submitted homework scores will be dropped. However, late or missing homework assignments cannot be dropped and will receive a grade of zero. The only exception is when a homework is not submitted due to an unavoidable conflict (such as a serious illness or a family emergency). At the discretion of the instructor, these scores may be dropped in addition to the two lowest submitted assignments.

Your homework should be neat and clear, so that the grader can offer helpful comments and easily make corrections. Students often ask me how much work they need to show. Here is a good guideline: **A fellow student should be able to understand your solution completely, without referring to the book, notes, etc.** You will also be happy to have detailed homework solutions when you study for the exams. Solutions that do not include adequate explanation will not receive full credit from the graders.

On the top page of each assignment, please write your name, the course number, and identify any resources you used while working on the homework. For example:

- I worked with Xavier R. and Vanessa R. on this assignment.
- I obtained help from the Math Workshop.
- I spoke with Dr. Rasmussen in office hours.

Grading

Your final grade in this course will be determined by your grades on the midterm exams, the final exams, and the homework, weighted as follows:

<table>
<thead>
<tr>
<th></th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>20%</td>
</tr>
<tr>
<td>Midterm 1</td>
<td>25%</td>
</tr>
<tr>
<td>Midterm 2</td>
<td>25%</td>
</tr>
<tr>
<td>Final Exam</td>
<td>30%</td>
</tr>
</tbody>
</table>
Getting Help:

This is a fast-paced course with a high workload. It is natural that you will need assistance from time to time. Please make the most of the following resources!

- **Recitations**: Weekly recitations will be scheduled in the evening. Although these sessions are optional, they are an excellent opportunity to ask the TA questions about the material, and to get a second perspective from an expert!

- **Office Hours**: I will have office hours on Tuesdays and Fridays 9:00 – 10:00. I am also always happy to meet at other times if you cannot make my office hours – just send me an e-mail to set up an appointment. Office hours are a great place to ask detailed questions about any aspect of the course.

- **Math Workshop**: The Math Workshop is a free drop-in tutoring service available to the entire Wesleyan community. It is located in the Science Library in the main floor conference room. It is open most afternoons and evenings, staffed with undergraduate and graduate assistants who can help you with homework questions and the like.

Disability Resources

Wesleyan University is committed to ensuring that all qualified students with disabilities are afforded an equal opportunity to participate in and benefit from its programs and services. To receive accommodations, a student must have a documented disability as defined by Section 504 of the Rehabilitation Act of 1973 and the ADA Amendments Act of 2008, and provide documentation of the disability. Since accommodations may require early planning and generally are not provided retroactively, please contact Disability Resources as soon as possible.

If you believe that you need accommodations for a disability, please contact Dean Patey in Disability Resources, located in North College, Room 021, or call (860) 685-5581 for an appointment to discuss your needs and the process for requesting accommodations.