Course website:

http://math.pugetsound.edu/~jbernhard

Contact information

James Bernhard • jbernhard@pugetsound.edu • Thompson Hall 390G

See the course website for my office hours. My office phone number is 253.879.3812, but the phone is usually one of the slowest ways to reach me. Email is usually much faster. (All of my email is forwarded to another account, so you may receive email from me at that account as well.)

The course website is the best resource for information about the course. Among other things, it contains a complete calendar for the semester, including all assignments. Also, if you email me a password when I request one, you will be able to access your grade-to-date any time during the semester via the course website.

Learning objectives

The main goal of this course is to increase your ability to think mathematically by learning the basics of multivariate calculus: differentiation and integration of vector-valued functions, differentiation in several variables, multiple integration, line and surface integrals, and multivariate generalizations of the fundamental theorem of calculus. Note that this means that while we will use multivariate calculus as a vehicle for learning, the main focus of this course is on mathematical thinking rather than the actual subject matter of multivariate calculus.

Prerequisites

To take this course, you should have completed Mathematics 181 or its equivalent. If you are not sure whether this course is at the right level for you, please see me to discuss your concerns.

Course materials

The required text for this course is Calculus (2nd edition) by Jon Rogawski. (This is also the required text for Mathematics 180 and Mathematics 181.)

No other specific materials are required for this course. In particular, you do not need a calculator (and using one won’t be allowed on quizzes and tests).
**Coursework**

The coursework consists of:

- Approximately weekly quizzes, usually on Wednesdays. The problems from which the quiz problems will be selected are posted on the online course calendar.
- Three in-class tests.
- A final exam, from 8:00am-10:00am on Wednesday, December 17.

**Grading**

Your grade will be based on my assessment of your understanding of the material. By default, I will weight the various components of the course as follows:

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Quizzes</td>
<td>35%</td>
</tr>
<tr>
<td>Test 1</td>
<td>15%</td>
</tr>
<tr>
<td>Test 2</td>
<td>20%</td>
</tr>
<tr>
<td>Test 3</td>
<td>20%</td>
</tr>
<tr>
<td>Final exam</td>
<td>10%</td>
</tr>
</tbody>
</table>

However, these weights are subject to change due to individual circumstances, so if you believe the above components do not accurately represent your understanding of the material, then you should let me know. If the circumstances dictate, I can work with you to find another way to demonstrate your understanding of the material.

**Late work policy**

I will not accept late work without an appropriate reason, which you should explain to me before the work is late if possible. If you are falling behind or need to turn something in late, please see me so that we can discuss it.

**Attendance policy**

I will not be taking attendance in this class. You are responsible for the material that we cover in class whether or not you are in attendance. Since it is extremely difficult to keep up in the course without attending regularly, I expect absences to be rare. I do not ordinarily give make-up quizzes or tests, so if you must be absent during one of those, please let me know as early as possible so that we can discuss the situation.
**Academic honesty**

You are not allowed to work with anyone on quizzes or tests in this class. However, you are allowed to work with anyone before (and after) the quizzes—including each other, tutors, and me—on the problems from which the quiz problems are selected, and I encourage you to do so in any way that helps you learn the material.

For general information on issues of academic honesty, see the official University of Puget Sound academic honesty policy at:

http://www.pugetsound.edu/student-life/student-resources/student-handbook/academic-handbook/academic-integrity/

**University emergency response procedures**

Please review university emergency preparedness and response procedures posted at www.pugetsound.edu/emergency/. There is a link on the university home page. Familiarize yourself with hall exit doors and the designated gathering area for your class and laboratory buildings.

If building evacuation becomes necessary (e.g. earthquake), meet your instructor at the designated gathering area so she/he can account for your presence. Then wait for further instructions. Do not return to the building or classroom until advised by a university emergency response representative.

If confronted by an act of violence, be prepared to make quick decisions to protect your safety. Flee the area by running away from the source of danger if you can safely do so. If this is not possible, shelter in place by securing classroom or lab doors and windows, closing blinds, and turning off room lights. Lie on the floor out of sight and away from windows and doors. Place cell phones or pagers on vibrate so that you can receive messages quietly. Wait for further instructions.

**Disabilities**

If you have a physical, psychological, medical or learning disability that may impact your course work, please contact Peggy Perno, Director of the Office of Accessibility and Accommodation, 105 Howarth, 253.879.3395. She will determine with you what accommodations are necessary and appropriate. All information and documentation is confidential.

**Other**

Feel free to contact me with any questions you have regarding the course. I look forward to an enjoyable class with you this semester!