MATH 251 CRN 10276, PCC Sylvania, Winter 2015
TTh 6:00–8:50 SS 120

Instructor: Joseph Bradford
Office: ST 203
Office Hours: TTh 1–1:50 pm
Phone: 971-722-3389
E-mail: jbradfor@pcc.edu
webpage: spot.pcc.edu/~jbradfor

Calculus I, 4 Cr Includes limits, continuity, derivatives and applications of derivatives. Graphing calculator required. TI-89 Titanium or Casio Classpad 330 recommended. Prerequisites: MTH 112 or CMET 131; and their prerequisite requirements. Audit available.

Text  Calculus volume 1 - PCC custom edition for MTH 251/252 by James Stewart

MTH 251 Laboratory Manual. (On the math dept. website)

Calculator  A graphing calculator is required. I will be using the TI-89.

What The Course Covers

Sec. 2.1–2.8  Limits to Derivatives
Sec. 3.1–3.7  Differentiation Rules
Sec. 4.1–4.3  Applications of Differentiation

Grading
Your grade is based on 480 points, as follows:

<table>
<thead>
<tr>
<th></th>
<th>points</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graded Labs</td>
<td>80</td>
</tr>
<tr>
<td>Lab Attendance</td>
<td>50</td>
</tr>
<tr>
<td>Test 1</td>
<td>100</td>
</tr>
<tr>
<td>Test 2 (with no calc. portion)</td>
<td>100</td>
</tr>
<tr>
<td>Final (with no calc. portion)</td>
<td>150</td>
</tr>
<tr>
<td>Total</td>
<td>480</td>
</tr>
</tbody>
</table>
I plan to grade on straight percentages:

\[
\begin{array}{c|c}
+90 \% & A \\
80 \% - 89 \% & B \\
70 \% - 79 \% & C \\
60 \% - 69 \% & D \\
below 60 \% & F \\
\end{array}
\]

You may not make up a test. If you cannot make it to class on the day of the test you must contact me before class and we shall work something out. If no contact is made a zero will be given.

The final is comprehensive on Tuesday, March 17 at 6:00 pm.

**Lecture Attendance Policy**

While attendance is not required (except on test days), attendance is required if you want to know what goes on during any given day - i.e. Mr. Bradford will not provide personal lectures nor will he serve as a personal messaging service for students who miss a class. It is in the student’s best interest to attend every class period. It is also in the student’s best interest to make buddies in class that he/she can pump for info should he/she unavoidably have to miss a class.

**Lab Attendance Policy**

Your attendance and participation will determine your lab attendance score.

**Graded Labs Policy**

Graded assignments are due at 6:00 pm on the dates indicated on the assignments. Assignments that are not in by the time I start lecture will receive an automatic 20% point deduction. Assignments will not be accepted after 6:30 pm on the date they are due. Neither of these late policies is negotiable. Graded lab assignments are distributed at the end of class every Thursday - i.e., they are not the practice problems listed in the course schedule. Completed assignments may be sent as an email attachment. You may work together on graded lab assignments and you may get help from others (e.g. tutors) as well.
Your cell phone must be in some sort of “silent mode” while you are in the classroom. You may not read or send text messages while class is in session. If there is an unusual situation where you simply must be able to read and/or send a message without delay, have your phone in vibrate mode and leave the room before reading and/or responding to the message. No other electronic devices (other than calculators) may be used during class without the express permission of the instructor.

Important Dates: the last day to add is Tues. 1/13. The last day to drop with a refund is Sat. 1/10. The last day to withdraw with a ‘W’ is Sat. 2/28.

Pass/No Pass (P/NP). Requests for a ‘P/NP’ shall be requested through the registration office by the end of the eighth week of classes. NOTE: Absolutely NO late requests for a P/NP grade option will be accepted after the eighth week of school.

Audit (AU). Consult your advisor if Audit is allowed for Financial Aid. Requests for an ‘AU’ must be requested through the registration office. You must first have your instructor sign an Audit Request form (supplied by Registration). At that point, you must take the signed request form to the registration office for processing. The process for requesting an Audit grade option must be completed by the end of the first week of classes. NOTE: Absolutely NO late requests for an AUDIT grade option will be accepted after the first week of school (as according to school policy).

PCC is committed to supporting all students. If you plan to use academic accommodations for this course, please contact your instructor as soon as possible to discuss your needs. Accommodations are not retroactive; they begin when the instructor receives the “Approved Academic Accommodations” letter from you (submitted in person or via email). To request academic accommodations for a disability, please contact a disability services counselor on any PCC campus. Office locations, phone numbers, and additional information may be located at www.pcc.edu/disability.
Students are required to complete this course in accordance with the Student Rights and Responsibilities Handbook. Dishonest activities such as cheating on exams and submitting or copying work done by others will result in disciplinary actions including but not limited to receiving a failing grade. (See link page.)

Some aspects of this syllabus are tentative and may be changed to meet class needs.

Email communications
Because of federal privacy laws, all email communications related to this class need to be sent from and to your PCC email address. You may access your PCC email via MyPCC. Please visit me during my office hours if you are unfamiliar with MyPCC.

PCC’s policies on discrimination and harassment
Portland Community College does not tolerate unlawful discrimination based on race, color, religion, ethnicity, use of native language, national origin, sex, marital status, height/weight ratio, disability, veteran status, age, or sexual orientation in any area, activity or operation of the District. In addition, the college complies with the Civil Rights Act of 1964 (as amended), related Executive Orders 11246 and 11375, Title IX of the Education Amendments Act of 1972, Sections 503 and 504 of the Rehabilitation Act of 1973, Americans with Disabilities Act of 1990 (as amended), USERRA Uniformed Services Employment and Reemployment Rights Act, and all county, state and federal civil rights laws. Accordingly, equal opportunity for employment, admission, and participation in the college’s benefit and services shall be extended to all persons, and the college shall promote equal opportunity and treatment through a positive and continuing affirmative action plan.

http://www.pcc.edu/about/affirmative-action/nonharassment.html
Course Evaluations
Near the end of the term, students are encouraged to complete course evaluations by answering on-line questions about the class and the instructor. You will receive a PCC email notification when the evaluations become available. You are strongly encouraged to complete the evaluations to provide me feedback on the course and my teaching.

Resources For Students:

- Student Computing Center (SY Library, 971-722-4325)
  - internet access, mathematics computer programs
  Visit the following address for more information
  http://www.pcc.edu/resources/computer-labs/

Among other services, you have been allocated 100 double-sided pages of free printing for the term. Visit the following address for more information on printing services.
  http://www.pcc.edu/resources/printing/

- Multicultural Center (SY CC 202, 971-722-4112)
  - one-on-one help for math courses, drop-in or by appointment
  http://www.pcc.edu/resources/culture/

- Student Learning Center (SY Library, 971-722-4540)
  - district-wide tutoring information (including hours) can be found at
  http://www.pcc.edu/resources/tutoring/

- College Success Courses
There are several one credit courses available to help you find maximum success in your college experience. These include courses specifically geared to study skills. The following site offers information on these courses as well as on-line tips for success at PCC.
  http://www.pcc.edu/resources/panther-tracks/college-success/study-skills.html

- Calculator Handbooks
Revised handbooks for TI-89, TI-Voyage 200, and the Casio ClassPad 330 are available for download at http://spot.pcc.edu/academ/math/download.htm
Links

Grading Guidelines:  
http://www.pcc.edu/resources/academic/standards-practices/AcademicStandardsandPractices-GradingGuidelines.html

Deadlines:  
http://www.pcc.edu/registration/dropping.html

Disability Services:  
http://www.pcc.edu/resources/disability/

Code of Conduct:  
http://www.pcc.edu/about/policy/student-rights/student-rights.pdf#code-of-student-conduct

Academic Integrity:  
http://www.pcc.edu/about/policy/student-rights/student-rights.pdf#academic-integrity

Course Content:  
http://www.pcc.edu/ccog/default.cfm?fa=ccog&subject=MTH&course=251

Student Computing Center:  
http://www.pcc.edu/resources/computer-labs/

Printing Resources:  
http://www.pcc.edu/resources/printing/

Multicultural Center:  
http://www.pcc.edu/resources/culture/

Tutoring:  
http://www.pcc.edu/resources/tutoring/

College Success Courses:  
http://www.pcc.edu/resources/panther-tracks/college-success/study-skills.html

Calculator Handbooks:  
http://spot.pcc.edu/academ/math/download.htm

Affirmative Action:  
http://www.pcc.edu/about/affirmative-action/nonharassment.html
<table>
<thead>
<tr>
<th>Week of</th>
<th>Lecture Activities</th>
<th>Lab Activities</th>
<th>After Class Work These Practice Problems</th>
</tr>
</thead>
</table>
| Jan 6 / Jan 8 | **Textbook Sections** 2.1 | **Rates of Change** Activities 1–3 | TB: Sec. 2.1  
LM: “to the student;” E1: all activity 6: problem 6.1 |
| Jan 13 / Jan 15 | **Textbook Sections** 2.2, 2.3, 2.5 | **Limits and Continuity** Activities 4–10 | TB: Sec. 2.2, 2.3, 2.5  
LM: E2: 2.1, 2.6, 2.7 |
| Jan 20 / Jan 22 | **Textbook Sections** 2.4, 2.6 | **Limits and Continuity** Activities 12–16  
**Intro to First Derivative** Activities 17–19 | TB: Sec. 2.4, 2.6  
LM: E2: 2.2–2.4  
E3: 3.1, 3.2, 3.6 |
| Jan 27 / Jan 29 | **Textbook Sections** 2.6, 2.7 | **Functions, Derivatives, AntiDs** Activities 21–24  
**Intro to First Derivative** Activities 20 | TB: Sec. 2.6, 2.7  
LM: E3: 3.3–3.5  
E4: 4.1, 4.3–4.5, 4.10 |
| Feb 3 / Feb 5 | **Textbook Sections** 2.8 | **Functions, Derivatives, AntiDs** Activities 25, 26 | TB: Sec. 2.8  
LM: E4: 4.2, 4.6–4.9 |
| Feb 10 / Feb 12 | **Textbook Sections** 3.1–3.3 | **Derivative Formulas** Activities 27–37 | TB: Sec. 3.1, 3.2, 3.3  
LM: E5: all |
| Feb 17 / Feb 19 | **Textbook Sections** 3.4–3.7 | **Chain Rule** Activities 38–41  
**Implicit Differentiation** Activities 42, 43 | TB: Sec. 3.4, 3.5, 3.6, 3.7  
LM: E6: all  
E7: 7.1–7.4 |
| Feb 24 / Feb 26 | **Textbook Sections** 4.1 | **Related Rates** Activity 44–46 | TB: Sec. 3.5, 4.1  
LM: E8: 8.1–8.4 |
| Mar 3 / Mar 5 | **Textbook Sections** 4.2, 4.3 | **Critical Numbers and Graphing** Activities 48–54  
(complete next week) | TB: Sec. 4.2  
| Mar 10 / Mar 12 | **Textbook Sections** 4.2, 4.3 | **Critical Numbers and Graphing** Complete Activities 48–54 | TB: Sec. 4.3  
LM: E9: 9.1, 9.4, 9.5 |
| Mar 17 | | | Final Exam: Tuesday, March 17, 6:00–8:50 pm |