

Course: MTH 251: Calculus I (4 credits)
Term and Section Number: 201302-24466
Meeting Times: MW: 6:00-8:50 PM
Meeting Location: Sylvania Campus – ST 206
 12000 SW 49th Ave.
 Portland, OR 97219

Instructor: Steve Simonds
Office Location: SY ST 104
Phone Number: 971-722-4784
FAX Number: 971-722-8259
PCC email address: ssimonds@pcc.edu
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 PO Box 19000
 Portland, OR 97280
Instructional Website: spot.pcc.edu/~ssimonds

Office Hours

MTWR: 4:00-5:30 PM; other times available by appointment

Course Description

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.

View the course content guide at <http://www.pcc.edu/ccog/default.cfm?fa=ccog&subject=MTH&course=251>

Required Materials

- Calculus; Concepts and Contexts – 4th Edition; James Stewart - Brooks/Cole pub.
- PCC MTH 251 Lab Manual (can be downloaded via my website)
- Graphics Calculator - TI-89 or TI-92 or TI-voyage 200 or Casio ClassPad 330
- A ruler and colored writing utensils for graphs and vectors

Testing Policy

No make-up tests will be given without arrangements made prior to the scheduled test time. All make-up testing will take place in the Sylvania testing center (CC 216) and can be taken by appointment only (971-722-4131).

School Closures

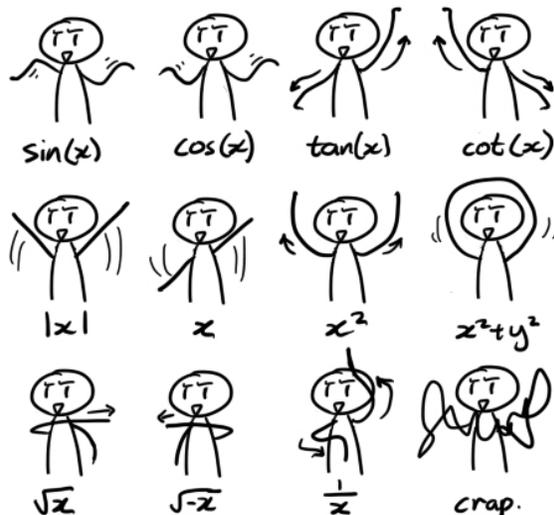
In the unlikely event the college is closed on the day of an exam or graded homework due date, the exam/homework due date will be the following class period unless you are otherwise informed by me via MyPCC email and my MTH 251 website.

Regarding Cell Phone Usage ...

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.

Beautiful Dance Moves



Point system used to determine your grade in the course

Table 1: Graded Activities

Activity	Possible Points	Picky Points Safety Net
Three 100 point tests	300 points	5 points per test
Graded Homework	100 Points	5 points total
Lab Attendance	50 Points	
Final Exam	150 Points	
Total Points Possible	600 Points	

Table 2: Grade Requirements

Grade	Points needed
A	540 points
B	480 points
C	420 Points
D	360 Points
P	420 Points

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. Simonds 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 Homework 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 homework assignments are distributed at the end of class every Wednesday - i.e., they are not the practice problems listed in the course schedule. Completed assignments may be FAXED to me or sent as an email attachment. You **may** work together on graded homework assignments and you **may** get help from others (e.g. tutors) as well.

More Information on your grade in the course

All work in this class is evaluated for presentation, process, and mathematical correctness. Examples in class always follow formats that will earn you full credit provided that your mathematics is totally correct. Examples typed into the labs always follow formats that will earn you full credit provided that your mathematics is totally correct. If you take complete and accurate notes then your notes serve as a guidebook for how your work should be presented and for what amount of work you are expected to show.

I know that each and every student in my classes is capable of presenting work in a manner appropriate to a 200 level mathematics course - that is why I hold students accountable for this.

Remember - it doesn't take 100% to earn an A.

More Information on testing in this class

I do not collect your practice homework. However, when writing your tests I will assume that you have successfully completed all of the practice problems that were assigned.

Important Dates

Your tests are tentatively scheduled for April 15/22 (take-home), May 15, and May 29

Your final exam will be given on June 10.

A complete course schedule (Table 3) appears on page 7.

Important dates for all of you PCC courses (including information about changing your grading options) can be found at: <http://www.pcc.edu/registration/academic-calendar.html>

Link to Portland Community College's Grading Guidelines

<http://www.pcc.edu/resources/academic/standards-practices/documents/G301GradingMarch2011.pdf>

Information about auditing, dropping, or withdrawing from the course

The college has very tight deadlines for auditing, dropping, or withdrawing from a course. For example, during most terms the paperwork to audit a course must be signed and submitted by the end of the first week of the term. Similarly, to receive a refund for a class a drop must be completed the first week of the term. These time frames are even shorter for some summer term courses. In all cases, it is 100% the student's responsibility to process the change in registration status by the due date and time. Term specific information for these deadlines is available at: <http://www.pcc.edu/registration/dropping.html>

Flexibility Statement

The instructor reserves the right to modify course content and/or substitute assignments and learning activities in response to institutional, weather or class situations.

Academic Integrity Statement

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 the Student Rights and Responsibilities Handbook to read the college's Academic Integrity Policy.

Link to Portland Community College's Student Rights and Responsibilities Handbook

<http://www.pcc.edu/about/policy/student-rights/student-rights.pdf>

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.

ADA Statement

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 for courses on campus; via email for Distance Learning courses). 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 found at <http://www.pcc.edu/disability>.

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. Additional information may be found at <http://www.pcc.edu/about/affirmative-action/nonharassment.html>.

Policies regarding Cell Phones and Other Electronic Devices

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.

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.

There are several things I will do to help you achieve success in class.

- I will show several examples for each topic covered in the class. I will consistently illustrate the proper way to write the mathematics and consistently illustrate proper organizational strategies so that you have a clear guide for how to write and organize your work.
- I will, to the best of my ability, answer all of your course related questions and do so in a friendly and open manner. This includes questions asked during class, during office hours, over the phone, or via email.
- I will frequently have you work in pairs and/or small groups so that you have the opportunity to practice the skills and ask pointed questions before you leave the classroom.
- I will be as explicit as possible in my feedback when grading your papers. I want you have the best chance of fully understanding your error and/or fully understanding how you need to write things differently to earn full credit on your next assignment.
- I will post all materials distributed in class on my web-site. This includes the lecture notes given in class.
- If you find yourself getting anxious about the class, I will respectfully listen to your concerns (during office hours) and do whatever I reasonably can to help mitigate your concerns.

As much as I want you to be successful in class, there are several things I can't or won't do.

- I can't read your mind while I'm lecturing. If I am explaining something that you don't understand, then you need to ask me questions. I can't promise that you will understand everything right away, but I will try my best to explain things in different ways until you do understand whatever you ask about.
- I can't take your notes for you. You need to follow along with me while I am lecturing and you need to write down all of the steps I show during lecture. You need to look at your notes when you first start working your homework problems and you need to find the connections between my examples and the problems in the book.
- I can't do your homework for you. If you want to be successful in class you need to do **all** of your assigned homework in **a complete and timely manner**. I will be very specific about the work you need to show for certain types of problems. When practicing those problems you need to practice showing all of that work as well as understanding the steps.
- I can't predict what problem set and/or concept a specific student won't understand. If you don't know how to successfully work some problems **you** need to find someone to help you with those problems. There are all sorts of people at PCC available help – this includes me, the tutors in the math center and multi-cultural center, and perhaps a fellow classmate. If you find yourself struggling with topic after topic, you might want to consider getting a private tutor.
- I can't take your quizzes and tests for you. I will ask questions that are remarkably similar to what I illustrate in class and what is in your textbook. If you've done **all** of your homework and consistently come to class you will not find any surprises on your tests.
- I can't be responsible when you miss a class. I know that sometimes a person has a perfectly legitimate reason for missing a class, but I can't take that on for the more than 100 students I have this term. If you miss a class, go to my web-site and download the materials distributed the day that you missed. You'll really want to get to know some students in the class to help you study and to pump for information should you miss class. Also, if a graded homework is either due or distributed it is 100% your responsibility to get the work in to me by time designated on the assignment if you want to receive credit for the assignment; I will not accept a late assignment under any circumstances.
- I can't let you (or any other student) dictate how I evaluate your work. I have been teaching for over 20 years and have a set of standards that I have learned help students be successful not only in my class but also in subsequent math classes. If you get frustrated with how I've graded something, try to keep in mind that I'm truly trying to help you be the best math student you can be. Feel free to stop by my office to have a friendly chat about how I've graded your work. If I write something on your paper that offends you (or say something in class that offends you) please let me know so that I can apologize and try to not do it again.
- I cannot allow you to use cell phones or other electronic communication devices while class is in session; those devices are distractions for you, the other students, and me. If you cannot exist with those type devices shut off, at the very least put the devices in vibrate mode and leave the classroom if an emergency requires you look at a message or take a call.

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>

Week of	Lecture Activities	Lab Activities	After Class Work These Practice Problems
Apr 1	<u>Textbook Sections</u> 2.1	<u>Rates of Change</u> Activities 1-3	TB: 2.1: 1-7 odd LM: "to the student;" E1: all; activity 6: problem 6.1
Apr 8	<u>Textbook Sections</u> 2.2, 2.3, and 2.5	<u>Limits and Continuity</u> Activities 4-10	TB: 2.2: 1-23 odd 2.3: 9-25 odd 2.5: 1-3 odd, 15-41 odd, 47, 51 LM: E2: 2.1, 2.6, 2.7
Apr 15	<u>Textbook Sections</u> 2.4, 2.6 Test 1 out on Wednesday	<u>Limits and Continuity</u> Activities 12-16 <u>Intro to First Derivative</u> Activities 17-19	TB: 2.4: 1-7 odd, 15, 17, 25, 33, 35, 37a, 37b 2.5: 5-9 odd 2.6: 1-49 odd LM: E2: 2.2-2.4 E3: all
Apr 22	<u>Textbook Sections</u> 2.7 and 2.8 Test 1 due on Wednesday	<u>Functions, Derivatives, AntiDs</u> Activities 21-24	TB: 2.7: 1-49 odd LM: E4: 4.1, 4.3-4.5, 4.10
Apr 29	<u>Textbook Sections</u> 2.8	<u>Functions, Derivatives, AntiDs</u> Activities 25, 26	TB: 2.8: 1-29 odd LM: E4: 4.2, 4.6-4.9
May 6	<u>Textbook Sections</u> 3.1-3.3	<u>Derivative Formulas</u> Activities 27-37	TB: 3.1: 3-43 odd 3.2: 3-33 odd, 43, 45, 47 3.3: 1-13 odd LM: E5: all
May 13	<u>Textbook Sections</u> 3.4 and 3.7 Test 2 on Wednesday (<i>derivative formulas provided</i>)	<u>The Chain Rule</u> Activities 38-41	TB: 3.4: 1-63 odd 3.7: 3-23 odd, 33-43 odd LM: E6: all
May 20	<u>Textbook Sections</u> 3.5, 3.6, and 4.1	<u>Implicit Differentiation</u> Activities 42, 43 <u>Related Rates</u> Activities 44-46	TB: 3.5: 1-27 odd 4.1: 1-9 odd 3.6: 1-7 odd, 13-29 odd, 33 LM: E7: 7.1, 7.2, 7.4 E8: all
May 27	Test 3 on Wednesday (<i>100% memory based test</i>) <i>School closed on Monday</i>		
Jun 3	<u>Textbook Sections</u> 4.2 and 4.3	<u>Critical Numbers and Graphing</u> Activities 48-54	TB: 4.2: 23-37 odd 4.3: 5-15 odd, 21-31 odd LM: E7: 7.3, 7.4; E8: 8.2, 8.4; E9: all
Jun 10	Final Exam: Monday, June 10, 6:00-8:50 pm (<i>100% memory based exam</i>)		