

Fall 2011

MTH 251 Section 8: Calculus I

MW 6:40-8:30 PM

NH 375

CRN: 12098

Instructor: **Kevin Samuels**
Office: **Neuberger Hall M326**
Office hours: Monday through Thursday 5-6pm, or by appointment
E-mail: **ksamuels@pdx.edu** Phone: 503-725-3621 (Math Dept.)

Your **first assignment** will be to find my office and come discuss the course for a few minutes. I will pass around a sheet for you to schedule an appointment. If none of the appointments work for you, please let me know and we will set up another time.

Directions to my office: Go out the door of this classroom and turn right. Walk straight ahead until you can't go any further. There will be a door to a stairway on your right. Go up one flight and you will find the door to the 3rd floor mezzanine. My office is the third one on the left (M326).

The **prerequisite** for this course is a grade of C- or better in MTH 112. Beginning winter term, this will be an enforced prerequisite and if it is not met, then you will be required to take the Mathematics and Statistics **Placement Test**. For more information, go to <http://mth.pdx.edu/programs/placement/>. For this term, to determine your preparation for Calculus, you will need to take this Placement Test by the end of the first week, Sunday, October 2nd by 11:59 pm. It is administered online through a system called ALEKS, and can be taken by following the instructions found at <http://mth.pdx.edu/programs/placement/calculus/>. If you have already taken this test, then you do not need to take it again. **The test will count as your first homework quiz.** (A score of 65% on the placement test is considered passing, so I will divide your score by 0.65; thus any score higher than 65% will count as 100% on the first quiz. If you have taken MTH 112 within the past year, and you do not want to take the test, I will use your MTH 112 grade as your first quiz score.)

Our **textbook** is titled Calculus by Jon Rogawski (ISBN 978-1-4292-0841-3). We will be covering chapters 2-4.

This course does not require a **graphing calculator**, although you will find it helpful to have one. If you do not have a graphing calculator, I recommend using **wolframalpha.com** for plotting functions. Always bring your calculator to class if you have one.

Your final grade will be based on the following breakdown:

Homework Quizzes:	30%
Problems to Turn In:	10%
2 Midterm Exams:	15% each
Final Exam:	30%

You are expected to **attend every class**. If you are unable to make it, it is your responsibility to obtain notes from a classmate. We will have class every Monday and Wednesday from September 26 to November 30. A tentative **calendar** is included with this syllabus.

There will be **homework** problems from the textbook due every Monday. Instead of collecting homework, I will give quizzes that consist mostly of problems directly from the homework. **Always explain your reasoning** to receive full credit. I will drop your lowest quiz score. Quiz makeups will only be allowed if arranged in advance.

In addition to homework problems for the quizzes, I will occasionally assign **problems to turn in**. For these problems, explain your answers carefully and **use complete sentences**. Draw graphs if appropriate – the more explanation, the better. Turn these problems in with the quiz on the corresponding sections. I may write additional problems that will count for this part of your grade.

This class will have **two midterms and one final exam**. The midterms are scheduled for October 17 and November 7, during normal class time. The final exam will take place on December 5, 2011, from 7:30-9:20pm. I do not offer make-up exams except under extreme circumstances. **Do not miss an exam!**

There are many places where you can get **additional help** with the material covered in this class. I invite you to come to my office hours with questions, or to make an appointment if the hours do not work for you (I am available most afternoons, for example). There is a tutoring table that will be open starting the second week of term, in the atrium on this floor. Drop-in math tutoring is also available from the Peer Tutoring and Learning Center, which is located in Smith 439.

Disability Services: If you have a learning or physical disability which interferes with you taking this course, please contact the PSU Disability Services at 503-725-4150. They will determine how the course is to be adjusted for your individual needs.

This syllabus is **tentative**. I reserve the right to change it as necessary. The syllabus, along with any changes, will be posted at **d2l.pdx.edu**.

HOMEWORK PROBLEMS

Section	Quiz Problems	Turn In
2.1	Preliminary Questions 1-6, Exercises 1, 2, 4, 5, 6, 7, 9-13, 15, 16, 20, 22, 23, 25, 26	29
2.2	PQ 1, 2, 4, 5, 8, Ex. 1-7 odd, 8, 11-13, 14, 21, 23, 27, 30, 35, 37-41, 44, 47, 50	58
2.3	PQ 1-4, Ex. 3-24 multiples of 3, 25, 26, 29	33
2.4	PQ 1-5, Ex. 1-4, 6, 7, 8, 11, 15, 17, 20, 23, 26, 32, 35, 37-49 odd, 53, 54, 60-78 multiples of 3, 80, 86, 89*	52
2.5	PQ 1-3, Ex. 1-7 odd, 13, 16, 18, 21, 23, 27, 28, 31, 34, 37, 43, 46, 52	49
2.6	PQ 1-2, 4, Ex. 1, 2, 4, 6, 9, 12, 14, 18-39 multiples of 3	
2.7	PQ 1-4, Ex. 1, 4, 5, 6, 8, 14, 15, 18, 21, 22, 27*	11
3.1	PQ 1-6, Ex. 1, 2, 6-15, 18, 19, 20, 24-39 multiples of 3, 44, 53-58, 73*, 75*	
3.2	PQ 1-8, Ex. 1, 2, 5, 6, 9, 12, 13, 16, 18, 21, 24-45 multiples of 3, 49, 52, 55, 71, 76, 79, 80, 83, 86, 91*, 100*	
3.3	PQ 1-4, Ex. 1-6, 8, 10, 13, 16, 18, 19, 21, 24, 26, 29, 34, 37, 45, 46, 47, 51, 57*, 58*	
3.4	PQ 1-4, Ex. 1-4, 6, 7, 8, 11, 12, 14, 17, 20, 28, 31, 32, 38, 45	(handout problem)
3.5	PQ 1-5, Ex. 1-6, 9, 10, 12, 15, 22, 26, 29, 34, 38, 39, 40, 42, 52*	29
3.6	PQ 1-3, Ex. 1, 3, 6-27 multiples of 3, 32, 33, 40, 42, 43, 49, 56*	44
3.7	PQ 1-4, Ex. 1-6, 8, 9, 12, 15, 17, 22, 24, 27, 30, 34, 35, 40, 41, 42, 48, 51, 53, 57, 64, 67, 71, 76, 83, 91, 98*	
3.8	PQ 1-4, Ex. 1, 2, 9-27 multiples of 3, 32, 36, 39, 42, 45	54
3.9	PQ 1-3, Ex. 1, 3, 6, 8, 12, 15, 16, 19, 20, 23, 26, 28, 33, 36, 42*	
3.10	PQ 1-4, Ex. 1, 4, 6, 9, 12, 14, 16, 17, 23, 26, 28, 31, 32, 35, 38, 42, 45, 47, 81*	49
3.11	PQ 1-4, Ex. 1, 2, 3, 5, 6, 9, 10, 12, 16, 19, 22, 26, 30, 37	(handout problem)
4.1	PQ 1, 2, 3, 5, Ex. 1, 2, 5, 8, 15, 18, 21, 23, 25, 35, 41, 42, 45, 53	32
4.2	PQ 1-6, Ex. 1, 2, 4, 5, 7, 8, 12, 15, 16, 18, 24-54 multiples of 3, 61, 62, 80-82, 84*	
4.3	PQ 1-4, Ex. 1, 3, 6, 7, 10, 15, 18, 19, 22, 27-51 multiples of 3, 54, 57, 61*	58
4.4	PQ 1-8, Ex. 1, 2, 7-17 odd, 24-48 multiples of 3, 52, 55	59
4.5	PQ 1-6, Ex. 1-4, 7, 12, 15-33 multiples of 3, 42, 50, 51, 54, 57, 62, 65, 71, 92*	
4.6	PQ 1-4, Ex. 1, 3, 6, 9, 11-13, 16, 20, 26, 27, 28, 42, 44	(handout problem)
4.7	PQ 1-2, Ex. 1, 3, 7, 12, 15, 18, 23, 31, 35, 42, 49, 50, 59, 74*	64
4.9	PQ 2-7, Ex. 1-11 odd, 13, 14, 20, 25, 29, 33, 34, 41	

Problems marked with a * are OPTIONAL. I recommend trying these problems, but they will not appear on any quiz and will have no effect on your grade.