

Course Information for Mathematics 223 Introductory Analysis I, MA 223, Fall 2013

- Instructor:** Jon Kuhn, Ph.D., 309 Schwarz Hall
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(toll free numbers if inside Indiana ↓) (long distance charges, if necessary ↓)
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- Dept Office:** 120 Schwarz Hall, same telephone numbers as above, then extension 5298#
<http://www.pnc.edu/depts/mp>
- Class Times:** M 1:00-5:15pm; W 10-12noon and 1:00-5:15pm; F 9-12noon
- Office Hours:** F 9-1pm (Skype); or by appointment
- Texts:** (required) *Calculus with Applications (bundled with MyLab)*, (10th Ed) Lial et al., 2012
(required) *Lecture Notes Workbook For Mathematics 223*, Kuhn, Fall 2013 (on my PNC web page)
- Calculator:** TI-84+ (TI-Nspire, TI-84+ SE, TI-83+, TI-83+ SE) calculator is required
- Wireless laptop:** (optional) wireless laptop to allow students access to online assignments during class time
- Course web sites:** <http://faculty.pnc.edu/jkuhn> then follow links (syllabus and class lecture notes)
<http://www.mymathlab.com> (online assignments, registering requires course ID, student access code)
MyLab assignments password protected until student's telephone, email received and Skype contact made
<https://mycourses.pnc.edu/> (weekly scores, syllabus, class lecture notes, MyLab)
Check PNC email regularly. Please complete online course evaluation available later in semester.
- Objectives:**
- (1) Students should develop a working knowledge of the relevant core topics of differential calculus and their application to a variety of situations.
 - (2) Students should develop problem solving, critical thinking and analytical skills.
 - (3) Students should develop the ability to communicate their thinking both orally and in written form.
- Points:**
- | | |
|---|------------|
| Untimed Tests (7 at 50 points each) | 350 points |
| 20 Minute Quizzes (6 at 50 points each) | 300 points |
| Final (common to all sections) | 250 points |
| Attendance | 100 points |
- Grading Scale:**
- | | highest of | I | or | II |
|---|------------|---------------|----|-----------|
| A | | 900 and above | | top 15% |
| B | | 800 to 899 | | next 35% |
| C | | 700 to 799 | | next 40% |
| D | | 600 to 699 | | next 5% |
| F | | below 600 | | bottom 5% |
- Grading Policies:** Two assignments: homework due every Monday, untimed tests or 20-minute quiz due every Wednesday, during semester. Must achieve at least 80% on homework assignment, worth *nothing*, before permitted to start quiz/test. Late homeworks assignments are not accepted. There are no make-up quizzes, tests or final exam. 10 points (up to 100) deducted for each absence after 3rd, and each late homework assignment and quiz. Taking the final is required: failure to do so is an automatic F grade.
- Academic Integrity:** See <http://www.pnc.edu/cd/Policy/conduct.html>
- Accommodations:** If you have any kind of disability or situation requiring any type of accommodation in class or in testing, please contact instructor immediately. You must also consult with Disability Services Coordinator (extension 5374) to provide appropriate documentation before accommodations can be provided.
- Emergencies:** In the event of a major campus emergency, course requirements, deadlines and grading percentages may change. Check: Blackboard web page, my email address: jkuhn@pnc.edu, and my office phone: 219-785-5563. If no access to Blackboard, e-mail or phones, PNC's emergency text message system will be utilized.

Homework, Quiz and Test Deadlines:

W	Monday-Friday	Homeworks	Untimed Tests and 20 Minute Quizzes
		<i>Monday due dates</i>	<i>Wednesday due dates</i>
1	A26-A31	<i>no assignments due this first week</i>	
2	S2-S6, <i>no class S2</i>	H1 September 2nd	T1 September 4th
3	S9-S13	H2 September 9th	Q1 September 11th
4	S16-S20	H3 September 16th	T2 September 18th
5	S23-S26	H4 September 23rd	Q2 September 25th
6	S30-O4	H5 September 30th	T3 October 2nd
7	O7-O11	H6 October 7th	Q3 October 9th
8	O14-O18 <i>no classes O14, O15</i>	H7 October 14th	T4 October 16th
9	O21-O25	H8 October 21st	Q4 October 23rd, <i>supervised quiz 4</i>
10	O28-N1	H9 October 28th	T5 October 30th
11	N4-N8	H10 November 4th	Q5 November 6th
12	N11-N15	H11 November 11th	T6 November 13th
13	N18-N22	H12 November 18th	Q6 November 20th
14	N25-N29 <i>no classes N27-N29</i>	<i>no assignments due, Thanksgiving</i>	
15	D2-D6	H13 December 2nd	T7 December 4th
16	D9-D13	<i>no assignments due, review week</i>	
17	D16-D20	<i>supervised final</i>	

Week	Section(s) Covered	Description
1	R.1, R.2, R.3, R.4	algebra review
2	R.5, R.6, R.7	algebra review
3	1.1, 1.2, 1.3	linear functions
4	2.1, 2.2, 2.3	nonlinear functions
5	2.4, 2.5, 2.6	nonlinear functions
6	3.1, 3.2, 3.3	derivative
7	3.4, 3.5	derivative
8	4.1, 4.2	calculating derivative
9	4.3, 4.4, 4.5	calculating derivative
10	13.1, 13.2	trigonometric functions and their derivatives
11	5.1, 5.2	graphs and derivatives
12	5.3, 5.4	graphs and derivatives
13	6.1, 6.2, 6.3	applications of derivatives
14	6.4, 6.5, 6.6	applications of derivatives