

Course Information for Mathematics 224 Introductory Analysis II, MA 224, Spring 2015

- 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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(800) 872-1231 (ext 5598 and 5563#) (219) 785-5598 (then 5563#) voice mail
cell number: (269) 861-0024 office number: (219) 785-5563
- Dept Office:** 120 Schwarz Hall, (219) 785-5320
<http://www.pnc.edu/depts/mp>
- Class Times:** TR 1-2:15pm (other classes: MW 4-5:15; W 10-12noon; F 9-12noon; TR 9:30-10:45am)
- Office Hours:** Wed 1:30-3:30pm, Thur 10:45-12:30pm (S309/WebEx); or by appointment
- Texts:** (required) *Calculus with Applications (bundled with MyLab)*, (10th Ed) Lial et al., 2012
(required) *Lecture Notes Workbook For Mathematics 224*, Kuhn, Spring 2015 (<http://www.pnc.edu/faculty/jkuhn>)
- Calculator:** TI-84+ (TI-Nspire, TI-84+ SE, TI-83+, TI-83+ SE) calculator is required
- Course web sites:** <http://www.pnc.edu/faculty/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,
WebEx: <https://mail.pnc.edu/owa>, meeting number: 647 424 858
<https://mycourses.pnc.edu/> (weekly scores, syllabus, class lecture notes)
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 |
| Participation | 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 Tuesday, untimed tests or 20-minute quiz due every Thursday, 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, late homework assignments/quizzes, missing lecture notes. Taking the final is required: failure to do so is an automatic F grade.
- 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.

W	Monday–Friday	Homeworks		Untimed Tests and 20 Minute Quizzes		Comments
		<i>Tuesday due dates</i>		<i>Thursday due dates</i>		
1	J12–J16	<i>no assignments due this first week</i>				
2	J19–J23	H1	January 20th	T1	January 22nd	<i>no class J19</i>
3	J26–J30	H2	January 27th	Q1	January 29th	
4	F2–F6	H3	February 3rd	T2	February 5th	
5	F9–F13	H4	February 10th	Q2	February 12th	<i>supervised quiz 2</i>
6	F16–F20	H5	February 17th	T3	February 19th	
7	F23–F27	H6	February 24th	Q3	February 26th	
8	M2–M6	H7	March 3rd	T4	March 5th	
9	M9–M13	<i>no classes M9–M13</i>				
10	M16–M20	H8	March 17th	Q4	March 19th	<i>supervised quiz 4</i>
11	M23–M27	H9	March 24th	T5	March 26th	
12	M30–A3	H10	March 31st	Q5	April 2nd	
13	A6–A10	H11	April 7th	T6	April 9th	
14	A13–A17	H12	April 14th	Q6	April 16th	
15	A20–A24	H13	April 21st	T7	April 23rd	
16	A27–M1	H14, Review	April 28th	Practice Final	April 30th	<i>review week</i>
17	M4–M8	<i>supervised final</i>				

Week	Section(s) Covered	Description
1	6.4, 6.5, 6.6	implicit differentiation, related rates, differentials
2	7.1, 7.2	integration, substitution
3	7.4, 7.5	integration, area between two curves
4	8.1, 8.2	integration by parts, volume, average value
5	8.3, 8.4	continuous money flow, improper integrals
6	9.1, 9.2	multivariate calculus, partial derivatives
7	9.3, 9.4	extrema, Lagrange Multipliers
8	9.5, 9.6	total differentials, double integrals
9	10.1, 10.2	separable and linear first order differential equations
10	10.3, 10.4	Euler's method, applications of differential equations
11	11.1, 11.2, 11.3	probability and calculus
12	12.1, 12.2	geometric sequences and series, annuities
13	12.3, 12.4	Taylor Polynomials, infinite series
14	12.5, 12.6	Newton's method, L'Hospital's rule

- **Academic Integrity:** Academic Integrity is a core value of our community. Academic honesty and appropriate classroom behavior are the responsibility of each PNC student. Students who are found to be in violation of the academic integrity policy will be subject to both academic and non-academic sanctions such as failing grade in the class and/or in cases where the student may have a pattern of misconduct with the University, the student may be separated from the University because of this behavior.

You are expected to be familiar with the University's Code of Conduct and possible sanctions. You can access this document on the Dean of Students web page under University and Campus Policies/Student Conduct, Disciplinary Procedures and Appeals, or at: <http://www.pnc.edu/Policy/conduct>. Students should also make themselves aware of an addendum covering classroom disruption which can be found at: http://www.pnc.edu/academic_affairs/wp-content/uploads/sites/20/2013/05/Disruption-in-Classroom-Policy.pdf.

Students should understand that if you are charged with an offense, pleading ignorance of the rules will not serve as an excuse. You need to make yourself familiar with these university documents. Any questions you may have can be directed to the Dean of Students.

- **Attendance policy:** Federal Regulations on Title IV financial aid require all faculty to document a last date of attendance for students that are not attending classes. If a student misses more than 3 consecutive classes that are not approved by the instructor, then the student's name must be sent to the Student Success Centers Early Alert Program at <http://www.pnc.edu/ssc/early>.
- **Counseling Services:** Short term confidential counseling is available to enrolled students free of charge through the Student Counseling Services office located in LSF 103. The phone number is 219-785-5230 or 1-800-872-1231 ext. 5230. Call or stop in to make an appointment Monday through Friday 8:00 AM to 4:30 PM.
- **Statement concerning disability accommodation(s):** If you have any kind of disability or situation requiring any type of accommodation in class or in testing, please contact instructor immediately. The Disability Services Coordinator, in LSF-103A, extension 5374, provides information and resources to all students with disabilities, faculty and staff, ensuring equal access to educational opportunities. The office will provide guidance regarding appropriate accommodations. Academic accommodations and other services are provided on an individual basis determined by documented need. Documentation of the disability completed by a physician or qualified health care professional must be on file in the office.