

## Math 2415 (Calculus I) Spring 2015

### Course and Instructor Information

Section 03 M 11:00 - 11:50 am TF 11:00-12:15 pm (B-206)  
06 M 12:30 - 1:20 pm TF 12:30 - 1:45 pm (B-206)

Instructor: Dr. Pablo Zafra  
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Email address: [pzafra@kean.edu](mailto:pzafra@kean.edu)  
Office: C213  
Office Hours: MTF 9:30 – 11:00 am, M 11:50 - 12:30 pm, 1:20 - 2:00 pm,  
W 11:50 - 2:00 pm (by appointment only)

### Course Description

Calculus is essentially a study of functions. We will analyze their properties and discuss techniques to help us understand their behavior and applicability to a variety of real-world problems. Core topics include functions, limits and continuity, derivatives, integrals and applications.

### Pre-requisite: Math 1054 (Pre-Calculus)

Students who haven't completed this course must withdraw from the class.

### Course Objectives: Upon completion of the course the students will be able to:

- Demonstrate their understanding of limits for single variable functions
- Differentiate and integrate algebraic and trigonometric functions of a single variable functions
- Use the derivative concept to analyze the behavior of single variable functions and their graphs
- Apply technology to demonstrate the usage of calculus

### Instructional Methods

This course is taught using a variety of instructional approaches including lecture, class discussions, and online assignments.

## **Textbook & Materials**

Textbook Title: Calculus by William Briggs, Lyle Cochran, and Bernard Gillett 2<sup>nd</sup> edition.  
ISBN: 0-321-94734-7

Publisher: Pearson

Note: A graphing calculator is needed.

## **Tentative Schedule (Major topics and assignments that are due each week.)**

Week 1 Section 1.1, 1.2, and 1.3

Week 2 Section 1.4, 2.1, and 2.2

Week 3 Section 2.3 and 2.4

Week 4 Section 2.5, and 2.6

Week 5 Section 3.1, 3.2, and 3.3

Week 6 Review and Test one

Week 7 Section 3.4, 3.5, and 3.6

Week 8 Section 3.7, 3.8, and 3.9

Week 9 Section 3.10, 3.11, and 4.1

Week 10 Section 4.2, 4.3 and 4.4

Week 11 Review and Test two

Week 12 Section 4.6, and 4.9

Week 13 Section 5.1 and 5.2

Week 14 Section 5.3

Week 15 Section 5.4 and 5.5

Week 16 Review/Catch up Final exam

## **Important Dates**

January 21	Classes begin
January 27	Last day to withdraw with 100% refund
February 3	Last day to withdraw with 75% refund
February 10	Last day to withdraw with 50% refund
February 16	President's Day, no classes
March 2	Last day to withdraw from courses with a <b>W</b> grade, 0% refund
March 16--22	Spring recess
April 3	Good Friday, no classes
May 18	Term Ends

## Assessment:

There will be two 100-point tests, one 120 points final exam, and 80 points from online assignments and/or online quizzes (Details on the online assignments/quizzes will follow). Total number of points is 400 points. Tests will be announced at least one week in advance. Quizzes will be announced at least one class in advance.

**There will be no make-up quizzes regardless of the reason for absence.**

Missed exams can be made up within one week of the actual in-class examination. However, you must contact your instructor to arrange the scheduling of the make-up test within 48 hours of the date of the test that you missed. If you are unable to contact your instructor, please have a reliable person to do this on your behalf. Valid documentation must be presented to you instructor. Examples of valid documentations includes: illness (doctor's excuse), self-confinement at home or in the dormitory does not qualify, death in the immediate family (obituary or funeral announcement), or appearance in court (copy of court documents will suffice).

The approximate grade range is as follows:

A	373—400	A-	360—372
B+	348—359	B	336—347
B-	320—335	C+	300—319
C	280—299	D	240—279
F	0—239		

**Please do not ask for extra credit or curves on any exams.**

**Policies:** Cellular phones, texting, laptops, or any other electronic devices are prohibited during class. Use of these devices will result in immediate expulsion from the classroom.

### Important University Policies and Information

Students are responsible to review and understand the *University Academic Integrity Policy* (available at the Center for Academic Success or at <http://www.kean.edu/admin/uploads/pdf/AcademicIntegrityPolicy.pdf>)

Students should review the *Student Code of Conduct*, as it discusses expectations of appropriate conduct in the classroom: <http://www.kean.edu/KU/Code-of-Conduct>.

The Students Rights and Responsibilities handbook is available at: <http://www.kean.edu/KU/Forms-Policies-and-Publications>

Students are strongly encouraged to register for the University's emergency notification system ([www.mir3.com/kean](http://www.mir3.com/kean)) in order to be informed of campus emergencies, weather notices, and other announcements.

All students must have a valid Kean email account. For those who do not already have one, forms are available on-line at <http://www.kean.edu/KU/Forms-OCIS>; click on E-mail Account Request Form.

**Americans with Disabilities Statement & Non-Discrimination Statement:**

Kean University is an affirmative action, equal opportunity institution. Students with documented disabilities who may need special instructional accommodations or who may need special arrangements in the event of an evacuation should notify the instructor as soon as possible, no later than the second week of the term. Students may contact Kean Disability Office in Downs Hall Rm 127 to discuss special needs, 737-4910.

**KU Non-Discrimination Policy:**

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Note: If there are exercises related to materials that were not covered in class due to time constraint, then you are not responsible to self-study any of these materials.

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2.3	76	11,17,19,22,27,33,37,41,43,45,47,53,55
2.4	85	8,13,17,19,23,29,31,35,39,44,45
2.5	96	9,11,17, 27,31,35,41,45,53,57
2.6	108	11,15,17, 27,29,37,39,41,47,51,53,57,59,71,75
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3.3	151	7,9,17,21,27,29,31,36,37,39,44, 51,55,59
3.4	160	8,11,15,19,21,27,29,33,35,39,45,47,58
3.5	169	9,10,15,17,19,22,23,29,36,43,47,61
3.6	181	9,11,17,19,21,23,25
3.7	191	9,12,,21,25,29,35,37,41,45,49,57,60,64
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3.9	211	9,11,13,15,17,25,27,29,35,37,41, 47,51,55,57,61,63
3.10	221	7,9,12,15,21,25,27,31,32,37,42,43,47,49
3.11	227	5,7,9,11,13,23,25,35,37
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5.3	373	11, 19,23,26,31, 39,47,52,55,59,61,65,69,71
5.4	381	6,11,14,17,19,23,35,37
5.5	391	9,13,14,17,19,25,33,37,41,45,53,55