**MATH 11012-602: Intuitive Calculus, Fall 2013**

**Meeting time/place:** MW 5:30-6:45, Main Hall 205

**Instructor**: Mrs. L. Adams

**Office**: Main Hall 452

e-**mail**: Ladams7@kent.edu

**Phone** **number**: Off-campus 330-244-3452, On-campus 53452  
**Office Hours:**

**Feel free to come to appropriate locations at any of the above times. You do not need an appointment.**

**If you wish to meet with me at a time different than the ones above, you must arrange an appointment.**

**Text**: Calculus for Business, Economics, and the Social and Life Sciences by Hoffman and Bradley, 11th edition

**Course Description:** We are planning to cover chapters 1-5 (some sections will be skipped): limits, derivatives, integrals and their applications; the development of basic calculus skills, excluding trigonometric functions. This is an LER/Kent Core course.

**Prerequisite:** Appropriate placement-test score or a grade of C (2.0) or better in MATH 11010, 11011, or 12001.

**Course Materials:** You will need a copy of the textbook and a graphing calculator (a TI-83 is **strongly recommended**).

**Grading:**

Test 1: 20%

Test 2: 20%

Test 3 (Comprehensive Final): 25%

HW: 15%

Quizzes: 15%

Attendance: 5%

**General Grading Scale:**

A 93% and higher

A- 90-92.9%

B+ 87-89.9%

B 83-86.9%

B- 80-82.9%

C+ 77-79.9%

C 72-76.9%

C- 70-72.9%

D+ 68-69.9%

D 60-66.9%

F below 60%

**Things to expect from me**

**Lecture-style teaching, with questions—**In general, I will give lectures each class meeting, and write on the board. I expect you to be writing down what I write, preferably in a notebook.

**Homework--**I will assign homework problems from the book for each section, or give out my own homework assignments.

**Quizzes**—We will have several quizzes (see attached schedule). About half will be group quizzes, and half will be individual. They will be over problems completed in class and/or assigned for homework. You will usually get about 20-30 minutes to complete them. The lowest score will be dropped.

**Exams**—I write exams based on homework questions, study guides, and problems completed in class. In addition, I will often include one “challenge” problem that requires a bit of higher-order thinking. All of the problems on the exam will be do-able if you know how to correctly apply skills we have learned in class.

**Tutoring if needed**—I am always willing to sit down one-on-one with students to help them understand lessons or complete homework. PLEASE come to me as soon as you are beginning to struggle with a concept, so that you can get back on track.

**Missed class policy** - If you miss a class and believe it is an excused absence, you must send me an email at Ladams7@kent.edu with the following information:

-Full name

-which class you are in (Intuitive Calculus)

-Reason for absence (sickness, death in family, military)

-Attached “proof” (doctor’s note,, etc) – if it not possible to scan your document, give it in person to me in class and make a note of that in your email.

With regards to your attendance points:

4 or fewer classes missed (unexcused) = 100%

5-20 classes missed (unexcused) = 50%

>20 classes missed (unexcused) = 0%

* **Missed Quizzes**: Unless you have an excused absence (see policy above), then you will not be allowed to make up a missed quiz.
* **Missed Homework**: If you miss turning in a graded assignment for an excused reason, you must turn in the assignment on the class meeting day you are able to return to class, **with a note stating that it was an excused absence**. Otherwise, if it was an unexcused absence, I will accept late homework within two (class meeting) days after it was due, with **a late penalty of 25% per day.** You are always welcome to scan and email me assignments.
* **Missed Exams**: If you must miss an **exam** for an excused absence, you need to contact me on **THE DAY OF THE EXAM,** either by email or phone message, to arrange a makeup. If a makeup is warranted, you will be given a deadline to take the exam that is within a few days of your return to class. Makeup exams are given at the Testing Center.

**Things I expect from you**

**Regular attendance—**Attendance is expected and required for successful completion of a mathematics class. 5% of your total grade will be determined by attendance.

**Responsibility for getting notes if you are absent—**I recommend that you find a buddy in the class and exchange contact info. I do not have notes to give to you if you miss class.

**Questions and communication—**Feel free to ask questions in class as we go along.If you personally need a more detailed explanation than I can give in class, come and see me during office hours.

**Homework completed on-time—**Please begin your assignments as soon as we cover each lesson, so that you can get a feel for the types of problems, and can see if there will be any issues before it is too late.

**Out-of-Class studying and practice—**You will probably do more work on your own than I formally assign and grade. You need to determine how much work you personally need to do to succeed in this course. I am always happy to give you extra problems to look at from the book if you ask me.

**Courtesy during class**—Please refrain from using cell phones (including texting) and talking with other students during lectures. This is distracting to me and to other students.

**Academic Honesty**. The use of intellectual property of others without attributing it to them is considered a serious academic offense. Cheating or plagiarism will result in receiving a failing grade for the work or course. Repeat offenses result in dismissal from the University.

Conduct. Student and faculty behavior at the Stark Campus is governed by the guidelines set forth in the Student Affairs Information Bulletin: Digest of Rules and Regulations and by the Faculty Code of Professional Ethics. Consult the Student Affairs Information Bulletin for the Student Code of Conduct and other applicable policies and procedures.

**Students with Disabilities:** Kent State University recognizes its responsibility for creating an institutional atmosphere in which students with disabilities can succeed.  In accordance with University Policy Subpart E…104.44, if you have a documented disability, you may request accommodations to obtain equal access in this class.  Please contact the disability coordinator on campus, Amanda Weyant in Student Accessibility Services, located in the Student Success Center, lower level of the Campus Center, phone (330) 244-5047, or [aweyant1@kent.edu](mailto:aweyant1@kent.edu). After your eligibility for accommodations is determined, you will be given a letter which, when presented to instructors, will help us know best how to assist you.

**Classes Canceled – Campus Closings**. Announcements of class cancellations and/or campus closings will be made on the campus home page.  In the case of an emergency, weather-related or otherwise, please check the Stark Campus website home page at <http://www.stark.kent.edu> for information on the buildings and times of the closing. While information may be broadcast by radio and television, this should be confirmed by the web page, which is the official announcement of the campus and which will be the information used to determine issues related to student attendance, rescheduling of tests, and other concerns.

**Learning Outcomes:** The learning outcomes for this course may be found in the file at this link: [https://cmsprod.uis.kent.edu/CAS/Math/undergraduate/upload/Learning-Outcomes2012-1.doc](https://ch1prd0810.outlook.com/owa/redir.aspx?C=Oe_3Z6XzykWHRhqf4_D1pNAxze1VU88I_yVSdbLwUZSlIqEtO2-tV_AcIoLK9Q_JdxeRrpNL8w0.&URL=https%3a%2f%2fcmsprod.uis.kent.edu%2fCAS%2fMath%2fundergraduate%2fupload%2fLearning-Outcomes2012-1.doc) on page 10.

Tentative Schedule:

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|  | **Monday** | **Wednesday** |
| Week of Aug 26 | Syllabus, Review | 1.5 – Limits  1.6 - One-sided Limits |
| Week of Sep 2 | Labor Day | 1.6 Continuity, **Quiz 1** |
| Week of Sep 9 | 2.1 - Derivative | 2.1, **Quiz 2** |
| Week of Sep 16 | 2.2 - Differentiation Techniques | 2.3 Product & Quotient Rules  **Quiz 3** |
| Week of Sep 23 | 2.4 - Chain Rule | Review |
| Week of Sep 30 | **Test 1** | 2.6 - Implicit Differentiation |
| Week of Oct 7 | Extra: Simplifying Derivatives and finding critical points, 3.1 Increasing/Decreasing | Catch-up, **Quiz 4** |
| Week of Oct 14 | 3.1 –Extrema | 3.2 Concavity, **Quiz 5** |
| Week of Oct 21 | 3.3 - Curve Sketching/Putting it all together | 3.4 Optimization, **Quiz 6** |
| Week of Oct 28 | Catch-up | Review |
| Week of Nov 4 | **Test 2** | 4.1, 4.2 - Exponential and Logarithmic Functions |
| Week of Nov 11 | *Veterans’ Day – no class* | 4.3- Differentiation of Exp and Logs , **Quiz 7** |
| Week of Nov 18 | 5.1 - Antiderivatives | **Quiz 8** |
| Week of Nov 25 | 5.2 - Integration by Substitution | *Day before Thanksgiving (no class)* |
| Week of Dec 2 | 5.3 - Definite Integral | Catch-up, Review |
| Week of Dec 9 (finals week) | **Test 3/Final Exam – 6pm** |  |

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