# Math 115 Calculus for Business Fall 2009

<table>
<thead>
<tr>
<th>Instructor:</th>
<th>Ladera Barbee</th>
<th>Office Hours:</th>
<th>5:00 pm – 5:30 pm Mon/Wed held in ECS-105</th>
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</thead>
<tbody>
<tr>
<td>Office:</td>
<td>F03-200B</td>
<td>Website:</td>
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<td>Graduate Assistant:</td>
<td>Melissa Dominguez</td>
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<tr>
<td>Course:</td>
<td>Math 115 – Calculus for Business</td>
<td>Office Hours:</td>
<td>Mon/Wed 9am to 2pm in LA5-345</td>
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<td></td>
<td>5:30 pm to 6:45 pm Mon/Wed</td>
<td>Room:</td>
<td>ECS-105</td>
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<td></td>
<td>Sec – 05 Call # 3214</td>
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|                     | 2. MathZone access code |
|                     | 3. ALEKS access code |

| Grading: | On-line/MathZone homework 10% |
|          | ALEKS on-line homework 5% |
|          | Activity Worksheets 5% |
|          | Practice Tests 3% |
|          | Midterm Exams 54% |
|          | Final 23% |

| Scores: | 90 - 100% = A (Credit) |
|         | 80 - 89% = B (Credit) |
|         | 70 - 79% = C (Credit) |
|         | 60 - 69% = D (No Credit) |
|         | 0 - 59% = F (No Credit) |

**Catelog Description:** To study functions, derivatives, optimization problems, graphs, partial derivatives, Lagrange multipliers, integration of functions of one variable. Applications to business and economics. Emphasis on problem-solving techniques.

**Course Objectives:**
1. To learn the language and tools of calculus, and how to use them to study functions used in business and economics.
2. To refresh and maintain the language and tools of algebra, so that they may be used proficiently to study calculus, business and economics.

<table>
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<th>Exam Dates</th>
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<tr>
<td>Exam I – Wed 9/30</td>
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<td>Exam II – Wed 10/28</td>
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<td>Exam III – Mon 11/23</td>
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<td>Final – Wed 12/16</td>
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**Course structure:** This course includes a 3-hour per week large lecture session (called “seminar” in the schedule of classes), and a 1-hour per week breakout activity sessions (called “lecture” in the schedule of classes). Your grade in this course is based on your completion and performance of the following:

- **On-line MathZone homework**
  - Percent of your course grade: 10%
  - Content: the material covered in lecture
  - Frequency: MathZone homework is due Tuesdays and Fridays.

- **On-line ALEKS homework**
  - Percent of your course grade: 5%
  - Content: precalculus algebra
  - Frequency: The initial ALEKS assessment is due 9/8/09. The amount of work to be completed depends on how familiar you are with the precalculus algebra content. The grade distributions and due dates for the two content milestones are listed below.

- **In-class Activity worksheets**
  - Percent of your course grade: 5%
  - Content: the material covered in lecture
  - Frequency: Activity worksheets will be completed weekly, in the 1-hour activity session.

- **Practice Tests**
  - Percent of your course grade: 3%
  - Content: the material covered in lecture
  - Frequency: Practices Tests are due at the beginning of class, the meeting before a midterm exam.

- **Midterm Exams**
  - Percent of your course grade: 54% (18% each exam)
  - Content: the material covered in lecture
  - Frequency: Midterm Exams are about every four weeks, see the schedule above.

- **Final Exam**
  - Percent of your course grade: 23%
  - Content: the material covered in lecture
  - Frequency: The final exam is Wednesday, December 16th at 5pm.

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**More Details About Graded Items:**
Look on http://www.csulb.edu/~fnewberg/Business_Calculus/ for the activity worksheets and details about how to obtain access to your on-line homework and other course related items.

**MathZone** (http://www.mathzone.com): MathZone homework is due Tuesdays and Fridays, pertaining to the material covered in lecture. Assignments have multiple parts, generally including two sets of graded exercises, and one or two (optional but helpful) video components. For example, in Assignment 2, there are four entries in the list on MathZone, all titled, “2.1 Differentiation: Intro….,” and all labeled Assignment 2.

MathZone on-line homework constitutes 10% of your grade. Each graded part of each assignment will be weighted equally (so “Exercises Part 1” and “Exercises Part 2” contribute equally to your grade).
**ALEKS** (http://www.ALEKS.com): You will use ALEKS to refresh or learn the algebra skills needed to support your work in calculus and the other courses in the business major. You will begin by taking a 25-30 question assessment to determine what topics you need to study. You will then complete exercises in the ALEKS system, and gain mastery of those topics.

ALEKS activities constitute 5% of your course grade. For full credit, you should complete the following:

- the initial assessment done by Tuesday, September 8, 2009 (1% of your course grade)
- 65% of the topics mastered by September 22, 2009 (1.5% of your course grade)
- 85% of the topics mastered by October 9, 2009 (2.5% of your course grade)

**Activity Worksheets:** Attendance in the 1-hour Activity session is mandatory to receive credit for the worksheets. These worksheets are designed to help you complete the homework and succeed on the exams.

You will find the worksheets and information about how they will be graded at http://www.csulb.edu/~fnewberg/Business_Calculus. Print the worksheets and bring them with you to your 1-hour activity sessions.

**Practice Tests:** About a week before each exam, the practice test will be posted on the website for you to print out. You must show your work on the practice test to be eligible for full credit. The practice test is due at the beginning of class, the meeting prior to our exam. Once you turn in the practice test I will go over the answers. Therefore no late papers are accepted. This also means you will probably want to make a copy of your work, since you will not have access to work while we go over the answers.

**Exams:** There will be 3 midterm exams. The test dates are listed above. In the event that you must miss an exam with an approved university excuse, notify me immediately. Be sure to keep your midterm exams since they will be excellent preparation for the final.

**Final:** The final exam is Wednesday, December 16, from 5:00 pm to 7:00 pm in our regular classroom. Since the time is different and longer than our regular class, make arrangements now to attend for the full time. The Final will be cumulative and will be longer than a midterm exam. In the event that you must miss an exam with an approved university excuse, notify me immediately.

**Cheating:** Don't cheat. If you cheat on an exam you will receive a zero score for the test and are subject to further disciplinary actions through the University.

**University Policies:**
- The instructor may change the syllabus as needs arise, including exam dates.
- It is the students’ responsibility to notify the instructor within the first two weeks of school for:
  - Accommodation related needs pertaining to a university verified disability.
  - University related activities, such a sports or clubs, which would cause the student to miss an exam.

**Important Administrative Dates:**
To withdraw from the course you will need the proper paper work signed by myself and the Mathematics department. If you cannot be on campus when I’m available to sign your paperwork, please contact me so that we can make alternate arrangements. It may be possible for the department to sign on my behalf.

- Monday 9/14/09 – Last day to withdraw without a W
- Friday 11/20/09 – Last day to withdraw without a deans signature
Policies:

- Attendance is not mandatory but is highly suggested.
- You should arrive to class on time and stay the whole time. If you have to walk into the room after class has begun or leave before class has ended please do so as quietly as possible. If tardiness becomes a problem further actions will be taken.
  - The last two rows of room must remain vacant until 10 minutes after class has started. If you arrive 10 minutes or more after class please sit in the last two rows, starting at the center, so you don’t have to move for students arriving after you.
- If you are disturbing the class you will be asked to leave.
- I give a lot of partial credit so show all of your work on exams. In many cases, it is the work itself that is being graded.
- Calculators are permitted, so long as they function without noise. You may only use a calculator not an electronic device such as a cell phone, even though it may have calculator functions.
  - Graphing calculators are NOT allowed.
- I understand that some amount of talking may need to take place during class, but please keep it brief and quiet. Disruptive talking is grounds for dismissal.
- All cell phones, mp3 players and other electronic devices are not to be active during class. If any cell phone sounds during class, turn it off immediately and apologize to the people around you.
- After exams have been graded, they will be returned to you, during class. Each exam will only be brought to class for one week. If you are not present to pick up your exams, it is your responsibility to arrange to collect the items from me. Your exams will be disposed of, if you have not picked them up by the semester’s end.
- Lecture is intended to supplement the textbook. You are responsible for the contents of the textbook.
- This class has a Graduate Assistant (GA) who will be holding office hours and replying to your emails so please take advantage of this service.
- Any office hours may be canceled due to illness or necessary appointments; therefore, students should not depend upon a faculty member being in his/her office during the usual posted times. For this reason, students should secure any necessary signatures or other such requirements well in advance of any deadlines.