Instructor: Professor Jen-Mei Chang, Ph.D. **Office :** FO3-115
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Social Learning: https://piazza.com/class#spring2013/math115
Business Calculus Website: http://www.csulb.edu/~fenwberg/Business_Calculus
Course Website: http://www.csulb.edu/~jchang9/m115.html

Class Mtg:
- ♠ Section 07B Seminar, Code 2046. Tue/Thur 11:00am - 12:15pm, HSCI-102. (Chang, GA: Gino Aguirre)
- ♠ Section 08B1 Lecture, Code 5823. Mon 8:00am - 8:50am, PH1-127. (Michael De Guzman)
- ♠ Section 09B2 Lecture, Code 5824. Mon 11:00am - 11:50am, PH2-105. (Shawn Taylor)
- ♠ Section 10B3 Lecture, Code 5825. Tue 8:00am - 8:50am, LA5-347. (Victoria Marsh)
- ♠ Section 11B4 Lecture, Code 5826. Tue 9:30am - 10:20am, LA5-347. (Shawn Taylor)
- ♠ Section 12B5 Lecture, Code 5827. Wed 1:00pm - 1:50pm, LA5-343. (Shawn Taylor)
- ♡ (*OPTIONAL*) Supplemental instruction course: S/I 60 22 Class#6791 Tu/Th 12:30pm - 1:45pm, LA5-261.

OHs: Tue/Thur 10:20am - 10:50am; 2:00pm - 3:00pm; and by appointment.

Prereq.: Appropriate ELM score, ELM exemption, or MAPB 11.

Materials:
- ♠ A customized loose-leaf book: Calculus for Business, Economics, and the Social and Life Sciences, 11/e, by Hoffmann and Bradley.
- ♠ Access to your two on-line homework systems, **Connect** and **ALEKS**.
- ♠ A 3-ring binder with dividers for the **Notebook**.
- ♠ A non-graphing calculator that can calculate e^x.

Obj's: 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. (Seminar 3 hours, Lecture 1 hour.)

Discussion: We will be using Piazza (www.piazza.com) for social learning and real-time communications. Piazza is a question-and-answer system designed to streamline class discussion outside of the classroom. **IMPORTANT**: Refrain yourself from emailing me with your questions; instead, post them on Piazza. It is very likely that others might share the same questions.

In general, I am extremely supportive of collaborative efforts, i.e., group work; however, I have a zero tolerance for cheating. I encourage you to ask questions or share information on Piazza so all of us can benefit from your questions while not having to duplicate our efforts.

SLOs: "*The best way to learn is to do; the worst way to teach is to talk.*" — Paul Halmos.

1. Students will refresh and maintain the language and tools of algebra, so that they may be used proficiently to study calculus, business and economics.
2. Students will learn the language and tools of calculus and use them to study functions used in business and economics.

Exams: There will be four in-class exams that is each worth 14% and a **comprehensive** final exam that is worth 21% of your grade. Dates for the exams are as follows. Please make a note of these dates immediately since no make-up exams will be offered.

Exam 1: Thursday: February 14, 2013

Exam 2: Thursday: March 14, 2013

Exam 3: Thursday: April 11, 2013

Exam 4: Thursday: May 2, 2013

Final: Thursday: May 16, 2013 (10:15am - 12:15pm)

Grading: Traditional with one slight twist. You must maintain an exam average of 70% or better **and** obtain 70% or better in the weighted overall grade in order to qualify for a C or better in the course. Exceptions may be possible when considering your participation in and out of the classes. Absolutely no **curve** in this grade distribution.

Components:

1. In-class **Lecture Notes**
   - ♣ Download (from Beachboard), print, and bring those notes to each class meeting. The pacing is available on the **Schedule of Events**.
2. On-line **ALEKS** homework (buy access at the university bookstore, enrollment code is available on Business Calculus website)
   - ♣ `http://www.aleks.com/`. A detailed instruction on how to register: `http://www.csulb.edu/~fnewberg/Business_Calculus/ALEKS_Student_Registration.pdf`.
   - ♣ 5% of your course grade.
   - ♣ Goal is to reinforce your pre-calculus algebra skills.
   - ♣ The initial **ALEKS assessment** is due **Sunday of the second week**. This is done within the first 6 weeks of the semester. (The amount of work to be completed depends on how familiar you are with the pre-calculus algebra content.)
3. On-line **Connect** homework (buy access at the university bookstore, enrollment code is available on Business Calculus website)
   - ♣ Register at `http://connect.mcgraw-hill.com/class/m115_chang_s13`. Start with the "register now" button. Course code can be found from your textbook bundle.
   - ♣ 10% of your course grade.
   - ♣ Goal is to practice materials covered in lecture.
   - ♣ **Connect** homework is due Tuesdays and/or Fridays.
   - ♣ The PCs at the LA5-251 computer lab have the appropriate Java environment installed and can be used for completing the Connect and ALEKS assignments.
4. Off-line **Connect** (write-up) homework
   - ♣ This is essentially the "work" to your on-line **Connect** homework.
   - ♣ An example is illustrated here: `http://www.csulb.edu/~fnewberg/Business_Calculus/#OfflineHomework`
   - ♣ Access this from **Connect** or Beachboard.
5. In-class **Activity Worksheets**
   - ♣ Available for download via `http://www.csulb.edu/~fnewberg/Business_Calculus/#ActivityWorksheets`)
   - ♣ 4% of your course grade.
   - ♣ Goal is to practice concepts acquired in class as well as get exposed to new materials.
   - ♣ Print and bring them to the 1-hour activity/lecture session. Do these **independently** to reinforce learning and only ask for help if needed.

6. The **Notebook**.
   - ♣ 4% of your course grade. The **Notebook** is checked during the weeks with exams. Print and bring the cover sheet from the Business Calculus website each time you have it checked. Available via `http://www.csulb.edu/~fnewberg/Business_Calculus/#Notebook`
   - ♣ Materials to be included in the **Notebook** are **Syllabus**, **Schedule of Events**, **Lecture Notes**, **Activity Worksheets** , **Off-line Connect** homework assignments, and past **exams**.

Remarks:

- *No make-up exams will be given.* However, for verified emergencies, arrangements can be made ahead of the scheduled exam time.
- Class attendance is strongly recommended and required for exams. Your attendance and in-class participation might be used to determine your final grade at the end of the semester. After all, you did pay for your seat in the class.
- Any office hour may be canceled due to illness or necessary appointments, and students should not therefore depend on the faculty being in his or her office for a particular office hour. Students thus should secure any necessary signatures or other requirement well in advance of any deadline. Use the class discussion platform for additional help.
- The conditions under which students may withdraw and the documents which must be submitted are detailed in University Policy Statement 09-07, and described in the CSULB Catalog. The most current information on CSULB withdrawals is posted at: `http://www.csulb.edu/depts/enrollment/registration/details.html#anchor1`. It is the student's responsibility to withdraw from classes. Instructors have no obligation to withdraw students who do not attend courses, and may choose not to do so. Each student is responsible to check their MyCSULB account weekly to be certain that the Class Schedule listed accurately reflects the courses s/he is enrolled in for the current semester. Students should also check for any notices the University has sent to them.
- No instructor or office staff can add or change a class for you. Only YOU, THE STUDENT, can add or change classes in YOUR schedule. You may either add classes on-line through your MyCSULB account or in person at Enrollment Services during the registration period.
- Request for special need for accommodation of a University verified disability should be submitted within the first two weeks with all necessary documentation.
- The instructor reserves the right to alter anything on this syllabus at any time during the semester.
- Respect your classmates and yourselves. **I am committed to your success and willing to do anything to ensure that happens.** But you will have to work with me on that. Suggestions and comments are always welcome and strongly encouraged. Be an active learner! Ask lots of questions and answer lots of questions in class. The best way to learn math is by doing and explaining it to others.