MATH 1120—004 CALCULUS FOR BUSINESS & APPLICATIONS
SYLLABUS
INSTRUCTOR: JEWELL ANNE LEE HARTMAN
TUESDAY-THURSDAY 1:40 – 2:55 PM
OSBORNE CENTER B 134

COURSE INFO:

∇ CALCULUS FOR BUSINESS & APPLICATIONS MATH 1120 – 004
∇ INSTRUCTOR: JEWELL ANNE LEE HARTMAN
   ▪ B.A. IN MATHEMATICS, MINOR IN PHYSICS, SUMMA CUM LAUDE WITH HIGHEST DISTINCTION FROM UCCS, FALL 2011
   ▪ MASTERS OF SCIENCE IN PHYSICS FROM UCCS, SPRING 2013
∇ TIME: TUESDAY, THURSDAY 1:40 – 2:55 PM
∇ ROOM: OSBORNE CENTER B 134
∇ TEXTBOOK: CALCULUS AND ITS APPLICATIONS 10TH EDITION BY BITTINGER, ELLENBOGEN, SURGENT.
∇ OFFICE HOURS: TUESDAY FROM 4:35 PM TO 5:35 PM, THURSDAY 3:00 PM – 4:30 PM OR BY APPOINTMENT
∇ OFFICE: OSBORNE CENTER (SENG) A 421
∇ E-MAIL: jewellanneuccs@gmail.com
∇ SPECIAL REVIEW SESSIONS: PRIOR TO EXAMS, I WILL BE HOLDING EXTRA-REVIEW SESSIONS. DETAILS WILL BE ANNOUNCED THE WEEK PRIOR.
∇ SUPPLEMENTAL INSTRUCTION SESSIONS: TO BE ANNOUNCED

COURSE DESCRIPTION:

∇ CALCULUS FOR BUSINESS AND ECONOMICS IS DESIGNED TO HELP STUDENTS LEARN THE MATHEMATICAL TOOLS NECESSARY TO MAKE MATHEMATICS USEFUL IN THE FIELD OF BUSINESS. MATHEMATICS IS NOT ONLY THE LANGUAGE OF SCIENCE, BUT IT IS A TOOL FOR THE LANGUAGE OF BUSINESS. CALCULUS FOR BUSINESS AND ECONOMICS PROVIDES THE STUDENTS WITH THE TOOLS NECESSARY TO SUCCEED IN ANY FURTHER NECESSARY MATHEMATICS, AND SUCCESSFUL COMPLETION OF THIS COURSE WILL ALLOW BUSINESS STUDENTS TO FINISH THEIR MATH REQUIREMENT! TOPICS OF THIS COURSE INCLUDE ALGEBRA REVIEW, LIMITS (NUMERICALLY, GRAPHICALLY, ALGEBRAICALLY), AVERAGE RATE OF CHANGE, DERIVATIVES (BY DEFINITION, POWER, SUM, DIFFERENCE, PRODUCT, QUOTIENT, & CHAIN RULES), DERIVATIVE APPLICATIONS, HIGHER-ORDER DERIVATIVES, MAXIMIZATION & MINIMIZATION WITH 1ST AND 2ND DERIVATIVES, ABSOLUTE MAXIMUM & MINIMUM, MARGINALS, DIFFERENTIALS, IMPLICIT DIFFERENTIATION, RELATED RATES, EXPONENTIALS & LOGARITHMS & THEIR DERIVATIVES, EXPONENTIAL GROWTH & DECAY, ANTI-DIFFERENTIATION, INTEGRALS, U-SUBSTITUTION, FUNCTIONS OF SEVERAL VARIABLES, MAXIMIZATION AND MINIMIZATION OF MULTI-VARIABLE FUNCTIONS

PRIVATE TUTORING: PLEASE CONTACT ME IF YOU FEEL AS THOUGH YOU NEED A PRIVATE TUTOR. I CAN HELP DIRECT YOU IN THE RIGHT DIRECTION TOWARDS A LIST OF PRIVATE TUTORS OR SET UP AN ADDITIONAL SESSION OF OFFICE HOURS FOR YOU.

IMPORTANT DATES:

[] FIRST DAY OF CLASS: JANUARY 21 2014
[] CENSUS DATE: (THIS IS THE LAST DAY TO REGISTER & THE LAST DAY TO DROP WITH 100% REFUND): FEBRUARY 5 2014
[] QUIZ ON ALGEBRA REVIEW: JANUARY 23 2014
[] EXAM I: FEBRUARY 27 2014
[] PROJECT DUE DATE: MARCH 18 2014
EXAM II: April 3 2014
EXAM III: May 1 2014
Final Exam: December 13 2014 1:40 PM – 4:10 PM

Notes and Handouts:

Handouts and Lecture Notes, in addition to distributing them in class will be posted on BlackBoard after the class. This may not start with the first class but should start with the new material.

Homework:

Homework is due at the beginning of class. The list of all the Homework Assignments will be administered on the first day of class. Homework every day and will be graded and returned by the following class period. Homework will function to aid the students with continuous practice of concepts covered. Any specific due dates for homework or changes to the schedule will be announced in class and posted on my website. The Homework for the entire semester is listed in a handout, allowing you the opportunity to work ahead on your homework! Please take advantage of this opportunity to look ahead, as previewing the homework ahead of schedule will help you to understand the lectures better, in addition to helping with the completion of the homework. Homework will be worth 15% of your final grade.

Late Homework: If homework is placed in my drop-box 1 day after due-date, there will be a 10% deduction. For each day thereafter up until 1 week after due date, there will be a 20% deduction. For each additional day after it is 1-week late, the deduction will increase by 10% per day! Moral of the story: Do not turn in late homework! The entire semester’s homework is given to you in advance so that you may work ahead for weeks where your schedule is tight. However, your lowest homework score will be counted as extra-credit.

Early Homework: Any early homework will be awarded 5 points extra-credit!

Exams and Projects:

Quiz on Algebra Review: January 23 2014
Exam I: February 27 2014
Project due date: March 18 2014
Exam II: April 3 2014
Exam III: May 1 2014
Final Exam: May 13 2014 1:40 – 4:10 PM

Unless arrangements have been made prior to the exam, there will be no make-up exams! Missed exams will be scored as a zero!

Please contact me at least one week in advance if you will need to take an exam at a different time at my office or at the Testing Center.

Attendance

I will take attendance every class for purposes of records. Your attendance will be taken into consideration if your grade is borderline between two letter grades. I will discuss problems in class that are very relevant to the homework problems and exam problems, so it is to your advantage to attend class.

Additional Resources:
Center for Excellency in Mathematics (Math Center). The Math Center provides Free Tutoring and access to mathematical software. The Math Center is a great place to study, obtain free tutoring, and meet people taking math classes to form study groups with. The Math Center is located in Engineering 233 in the Engineering Building. The Math Center provides a well-equipped facility with computers, textbooks, and tutors for networking and studying in an environment designed for receiving tutoring and learning the material to the fullest. It is highly recommended that you utilize these facilities to answer your questions regarding the labs, mathematical & graphical analysis, computations, or any questions you may have.

Online-Tutoring: Online Tutoring is Free and provided through the UCCS Math Center. To access Online-Tutoring, please reference the Handout that will be administered.

Questions:

Students should always feel free to ask questions at any time—during class, after class, etc. I will check my e-mail as often as I can and I will respond as quickly as possible. I am very attentive to checking e-mail multiple times a day, so you can expect a timely reply. Additionally, please stop by my office hours for any questions or comments that you may have. Always feel free to ask me any questions that you may have! :)

Distribution of Points:

- Homework: 15%
- Take-Home Review Quizzes: 5%
- Algebra Review Quiz: 5%
- Project: 10%
- Exam I: 15%
- Exam II: 15%
- Exam III: 10%
- Final Exam: 25%

Grading:

Although attendance and participation are not directly factored into the grade via distribution of points, students should note that attendance, participation, and class dedication & work ethic are taken into account if distribution of laboratory points falls close to cut-off value for a letter grade. Notice that minus grades are only used to your advantage.

Letter grades are assigned as follows:

- A : 90% - 100%
- B : 80% - 86.999%
- C : 70% - 76.999%
- D : 60% - 67.999%
- F : Anything below 60%

- A- : 87% - 89.999%
- B- : 77% - 79.999%
- C- : 68% - 69.999%

Academic Honesty:
A student’s academic honesty is completely fundamental to both the ethics and character of each student and to the principles of the university institution. Work presented by the student must be honorably obtained and presented. The institution of UCCS will take cases of academic dishonesty to the fullest extent that is necessary, and consequences range from probation to failing the course to being expelled from the university. I will report any cases of cheating to the Dean and it will be treated appropriately.

Honesty is fundamental in every aspect of life; therefore including this university institution. Cheaters only cheat themselves, and I trust that you would not jeopardize your integrity or your academic career.

**Disability Services:**

If you are a student with a disability and believe you will need accommodations for this class, it is your responsibility to contact and register with the Disability Services Office, and provide them with documentation of your disability, so they can determine what accommodations are appropriate for this situation. To avoid any delay in the receipt of accommodations, you should contact the Disability Services Office before the Census Date (February 5, 2014). Please note that accommodations are not retroactive, and that disability accommodations cannot be provided until an accommodation letter has been given to me. Please contact Disability Services for more information about receiving accommodations at Main Hall, Room 105, 719-255-3354, or dservice@uccs.edu