**Spring 2009  Course Information**

**Math 170  Introductory Calculus with Applications  4 credits**

Description: To prepare for courses for which calculus is recommended and/or required. To study the ideas and concepts of advanced mathematics as applied to a modern computerized society. Topics covered include pre-calculus concepts, functions, differentiation, integration, differential equations, and functions of several variables.

Objectives: The student will analyze, comprehend and demonstrate an understanding of the following:
1. basic ideas and elementary concepts of algebra
2. functions and intuitive understanding of limits
3. derivatives
4. applications of differentiation
5. integration and its applications
6. logarithmic and exponential functions, differential equations and their applications
7. functions of several variables

**Book:** Calculus with Applications Brief Version, 9th Edition

**Author:** Lial, Greenwell, Ritchey

**Class Days/Times:** TR 11:50 – 1:40 pm

**Room:** 506

**Instructor Information**

**Instructor** Sherry Zobell

**Office** 405

**Phone** 355-6297

**email** sherry.zobell@imperial.edu

Any student with a documented disability who may need educational accommodations should notify the instructor or the Disabled Student Programs and Services (DSP & S) office as soon as possible.

Room 2117  Health Sciences Building  (760) 355 6312

If cheating or plagiarism is discovered, a student will receive a 0 on the assignment and referred to the disciplinary officer.
Class Rules

1. No late assignments are accepted.
2. After the third absence, I may drop you from the class.
3. It is your responsibility to drop before any deadlines, i.e., withdrawal deadline.
4. Bring your book and calculator to class every day.
5. No food or beverages are allowed in the classroom.
6. No children are allowed in the classroom.
7. Please do not let your cell phones and pagers ring during class and disturb others.

Expectations

Graphing calculators are required for this class.

Homework  Read and study the material in the book that corresponds to the assignment. Complete the assignments as they are assigned (and before the next class period.) Be neat, complete, and organized in showing your work and circle or box your answer. Bring your assignment for the current section with you to class each day. It is to be folded, with your name on the outside and the number of problems completed (do not use spiral note paper). Assignments will be collected and graded for completeness at my discretion. Late assignments will not be accepted.

Quizzes  will usually be unannounced and will be given the first 10 minutes of the class period. Students arriving late or missing class will not be permitted to take the quiz. Homework exercises may be used as quiz items as well as lecture and reading from the text. Students will not be allowed to use cell phones, calculators that do symbolic manipulation (such as the TI-89 or TI-92), laptop computers, or personal digital assistants (such as Palms) on any quiz.

In-class assignments will be turned in at the end of class and will be graded.

Projects  There are 3 scheduled projects that will cover specific topics or application of a topic in depth. These are designed to give you practice solving extended problems and communicating math by reading, writing, and discussing math. Your grade will be based upon clarity, neatness, organization and accuracy of the write-up. Each project is worth 40 points. Cheating is defined as turning in someone else's work as your own (this someone may be another student, a tutor, a member of the faculty, or an author). It is not cheating to work with others, but make sure all work is in your own words. Projects are to be typed, using complete sentences (where appropriate), proper English and correct spelling. Proofread your project before turning it in for grading. Project will require the use of math software that is available in the Math Lab.

Tests  There will be 4 unit exams. Attendance is required. There will be any make up exams. Students will not be allowed to use cell phones, calculators that do symbolic manipulation (such as the TI-89 or TI-92), laptop computers, or personal digital assistants (such as Palms) on any exam. If you leave the classroom during a test, for any reason, you will not be allowed to return. Your lowest test score will be replaced by the final exam if it improves your grade.

Final  will be comprehensive and given during finals’ week. All material in the course is cumulative and once covered in class, or assigned, may be used on any test or quiz.

Assessment

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<thead>
<tr>
<th></th>
<th>Points</th>
<th>% of Total</th>
<th>Grading Scale</th>
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<tbody>
<tr>
<td>Homework, in-class, quiz</td>
<td>60</td>
<td>10%</td>
<td>Percent Letter Grade</td>
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<tr>
<td>3 exams (no make up on missed exams)</td>
<td>300</td>
<td>50%</td>
<td>90-100</td>
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<tr>
<td>Final exam</td>
<td>120</td>
<td>20%</td>
<td>80-89</td>
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<tr>
<td>3 Projects</td>
<td>120</td>
<td>20%</td>
<td>70-79</td>
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<tr>
<td>Total</td>
<td>600</td>
<td>100%</td>
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