Course section: 55  Mo We Th  6:25pm-7:40pm  MM 312
Instructor: Armando Cabrera Pacheco
Email: cabrera@math.miami.edu  Webpage: www.math.miami.edu/~cabrera

Text


Other required materials

WebAssign: An access code for WebAssign is bundled with the new textbook purchased through the University of Miami Bookstore. You may also purchase the student access directly on the website: http://www.webassign.net. If you purchase WebAssign with the ebook, you do not need to purchase the physical text.

WebAssign Class Key: miami 2658 3459.

Grading Policy

The final grade will be obtained from two main grades, namely, the Course Grade (CG) and the Final Exam Grade (FE). CG will be determined according to the following table:

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Exams</td>
<td>60 points</td>
<td>There will be four exams during the semester. The lowest grade will be dropped, so each exam will be worth 20 points. There won’t be make-up exams.</td>
</tr>
<tr>
<td>Quizzes</td>
<td>25 points</td>
<td>There will be several in-class quizzes, the average of their grades will determine the proportion of the 25 points you obtain. There won’t be make-up quizzes.</td>
</tr>
<tr>
<td>Homework</td>
<td>15 points</td>
<td>Homework will be assigned weekly.</td>
</tr>
</tbody>
</table>

**FE** is the grade of the Final Exam (0 to 100 points), it will be a comprehensive exam scheduled on:

December 17th, 2013 (It is scheduled by the university and it is subject to change).

The final grade will be obtained as follows:

$$\max(0.7 \times CG + 0.3 \times FE, 0.5 \times CG + 0.5 \times FE).$$

The grade equivalence is as follows:
<table>
<thead>
<tr>
<th>Grade</th>
<th>Range</th>
<th>Grade</th>
<th>Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>93-100</td>
<td>C+</td>
<td>77-79</td>
</tr>
<tr>
<td>A-</td>
<td>90-93</td>
<td>C</td>
<td>73-76</td>
</tr>
<tr>
<td>B+</td>
<td>87-89</td>
<td>C-</td>
<td>70-72</td>
</tr>
<tr>
<td>B</td>
<td>83-86</td>
<td>D+</td>
<td>67-69</td>
</tr>
<tr>
<td>B-</td>
<td>80-82</td>
<td>D</td>
<td>60-66</td>
</tr>
</tbody>
</table>

**Honor Code**

The Honor Code will appear on each exam. Students should consult the *Undergraduate Bulletin* for details of the Honor Code. Any infraction of the Honor Code will result in a grade of “F” for the course and a referral to the Dean of Students.

**Calculator Policy**

Students may use a basic scientific calculator for exams and quizzes in this class. Graphing calculators and calculators with programming and alpha-numeric capabilities will not be permitted during exams and quizzes.

**Supplemental Instruction**

The Math Lab, located in Ungar Building Room 302, is available to all students enrolled in this course. Tutors are available at the Math Lab on a walk-in basis.

**MTH 161 Syllabus**


- **Chapter 1 (Functions and limits)**
  Functions and their graphs, examples of important type of functions and their transformations. Intuitive and precise definition of the limit of a function and techniques to calculate it. Continuity of functions. Limits involving infinity.

- **Chapter 2 (Derivatives)**
  Intuitive and precise definition of the derivative of a function. Basic differentiation formulas and rules. The Chain rule and implicit differentiation. Related rates. Linear approximations.

- **Chapter 3 (Applications of differentiation)**

- **Chapter 4 (Integrals)**
  Area under a curve. The definite integral and its evaluation. The Fundamental Theorem of Calculus. The substitution rule.

- **Chapter 7 (Applications of integration)**