First Year Calculus. Math 9B

- **Professor:** Vasiliy Dolgushev
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- **Phone:** 951-827-7347
- **Office:** Surge 223
- **Office hours:** Monday 1-3pm, Friday 1-2pm and by appointment
- **Teaching assistants:**
  - R.J. Dolbin, rjdolbin@math.ucr.edu, his office is in Surge 259
  - Daisy Lam, daisylam@math.ucr.edu, her office is in Surge 281
  - Adam (Esteban) Navas, adammnavas@math.ucr.edu, his office is in Surge 281
  - Azadeh Rafizadeh, azadeh@math.ucr.edu, her office is in Surge 263
- **Lectures:** MWF 5:10-6PM in PHY 2000
- **Discussion sections:**
  - **Section 1:** Tuesday 8:10-9am in INTS 1121 with Daisy Lam
  - **Section 2:** Tuesday 6:10-7pm ENG2 142 with R.J. Dolbin
  - **Section 3:** Tuesday 10:10-11am WAT 2240 with Adam Navas
  - **Section 4:** Tuesday 4:10-5pm HMNSS 1400 with Azadeh Rafizadeh
  - **Section 5:** Tuesday 2:10-3pm OLMH 1126 with Azadeh Rafizadeh
- **Syllabus:**
  - Riemann sums, definite integrals, geometric interpretation of definite integral
  - Antiderivatives, indefinite integrals
  - The Fundamental Theorem of Calculus
  - Integral Mean Value Theorem
  - Substitution Rule
– Applications of integration
– Inverse functions
– Exponential and logarithmic functions, hyperbolic functions
– L’Hospital’s Rule
– Techniques of integration: integration by parts, integration of rational functions, trigonometric substitution
– Improper integrals

• **Web-site:** Go to the *Blackboard*

http://ilearn.ucr.edu/webapps/login/

Please, **visit the blackboard often** for homework assignments and for announcements.

• **Homeworks:** Assignments of homeworks are posted every week on the blackboard. They will be collected during your discussion section on Tuesdays. In each homework assignment 3 randomly chosen exercises will be graded. A homework with the lowest score will be dropped.

• **Midterm:** We will have ONE midterm. It will be held on Jan 27 (Wednesday) in class 05:10 - 6pm, PHY 2000.

• **Final exam** is tentatively scheduled on **March 16, 7-10PM.**

• **Web-assign:** We will NOT use the web-assign.

• **Grading:** The maximal total score is 260 pts. It is split as follows:

  1. Final 100 pts.
  2. Midterm 40 pts.
  3. Homeworks $15 \times 8 = 120$ pts.

A homework with the lowest score will be dropped.

The grading guide is similar to the one you had in your high school:

\[
\begin{array}{c|c}
\text{Grade} & \text{Percentage} \\
\hline
A/A- & 90-100\% \\
B+/B/B- & 80-89\% \\
C+/C/C- & 70-79 \% \\
D & 60-69 \% \\
F & \text{below 60 \%} \\
\end{array}
\]

• **Your grade and your score.** The above table will NOT be used as a rule for determining your grade. It is only considered as a helpful guide. It often happens that the score does not reflect the actual knowledge of the material. For getting a good grade you **are required to know basic definitions and be able to manipulate with the basic notions.** Please, see the **must-know-list.**
• Justify all your steps! You have to justify all your steps in all your written assignments exams. Also, please, write legibly! Not justifying steps or not writing legibly may reduce your score.

• Make-ups: Late homeworks will NOT be accepted. There will be NO make-ups for the midterm. However, if you miss the midterm then I will respectively rescale the total score of your final exam. I will allow you to make-up your final ONLY IN CASE OF A DOCUMENTED EMERGENCY.

GOOD LUCK!