

<p style="text-align: center;"><b>Course Syllabus – Math 261</b> (transferable to UC and CSU) <b>Mr. Borsum - Fall of 2013</b></p>
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Mr. Borsum, Section 4502

E-mail: borsumjs@wlac.edu

Monday/Wednesday – MSA 102

7:15 – 9:50 pm (with a 10-minute break at approximately 8:30 pm)

Office hours: 9:50 – 10:15 pm, MSA 102

Text: Single Variable Calculus by James Stewart 5e. **This text may be rented at the bookstore!**

Though not required, there is a student solutions manual that can be found online.

**Welcome to Calculus!** Math 261 is the first semester of a 3-semester sequence of the calculus. Topics will include limits, continuity, derivatives, and integration.

**Prerequisite:** Mathematics 260 or equivalent with a grade of “C” or better, or appropriate placement level demonstrated through WLAC math placement process. *This is absolutely mandatory!*

**Description:** Math 261 assumes a thorough mastery of a pre-calculus class upon entry in order to facilitate the ability to use calculus and mathematical analysis to solve problems that arise in many types of situations. Should you enter the class without this mastery of pre-calculus topics, it will be very difficult to be successful in the course.

**Student Learning Outcomes:** Successful students will demonstrate cognitive learning of course material through the synthetic and evaluative levels. They will be able to:

- Apply quantitative thinking processes using basic mathematical operations to solve common academic, workplace, and family problems. (Theme: mathematical operations)
- Use mathematical tools essential for analyzing quantitative problems and for producing solutions. (Theme: mathematical tools)
- Select appropriate math strategies for solving and handling real life problems involving finance, economics, and family issues. (Theme: mathematical problem solving)

*In addition, students will demonstrate:*

- Critical Thinking: Analyze problems by differentiating fact from opinions, using evidence, and using sound reasoning to specify multiple solutions and their consequences.
- Communication: In your math papers and on tests you will be expected to show and explain your work in a clear, well-organized manner.
- Quantitative Reasoning: Identify, analyze, and solve problems that are quantitative in nature.
- Apply self-assessment and reflection strategies to learn from your mistakes and to seek better methods to solve particular problems.

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- Civic Responsibility: Students are expected to respect classmates as well as the instructor. This includes refraining from disruptive behavior (coming late, leaving early, wandering in and out of class, eating/drinking during class, side conversations, text messaging, etc.) and practicing positive behaviors (cooperation, civility, helpfulness, constructive engagement in class activity).
- Technical Competence: Utilize the appropriate technology effectively for informational, academic, personal, and professional needs.
- Ethics: All students will maintain the highest standards of academic honesty. You may NOT give or receive help on assessments. You may not turn in another's work as your own. If you are discovered committing any act of academic dishonesty, you will receive no credit for the assessment or assignment AND the case will be referred to the Dean for further disciplinary action.

**Course Content:** Material covered will include:

- Functions and models
- Limits
- Derivatives
- Applications of Differentiation
- Integrals
- Applications of Integration

**Materials:** Students should bring a math notebook (with graph paper), pencils, a graphing calculator, and the text to class each day.

**Graphing Calculator:** You **MUST** have a TI-83 Plus or TI-84 Plus graphing calculator with you, in class, every day, including exam days. The solutions to some problems require their use!

**Homework:** Students should plan to work on math *outside* of class for at least 10 hours each week. **Reading the upcoming sections and completing the problems should be done before the next class.** Since homework is a basic requirement of the course, it is expected that you will thoroughly complete the assignments, with a goal of *understanding* each problem. Too often, students have only a surface knowledge of the problems. Complete solutions for all textbook problems may be found online. Please make a concerted attempt to solve all problems on your own before consulting the solutions for assistance. Remember, solutions are not available to you when you are completing the assessments in the class!

**Assessments:** There will be four 100-point exams, four 25-point quizzes, and a 150-point cumulative final exam. These assessments may contain free response or multiple-choice questions. Your best three 100-point exams will be counted. Should you be absent for an exam, it will be the one that doesn't count. Should you miss additional exams, you will receive a score of "0" on those exams. Your best two 25-point quizzes will be counted. Should you be absent for 2 quizzes, those will be the ones that don't count. Should you miss additional quizzes, you will receive a score of "0" on those quizzes. The final exam will count 150 points. You **must** take the final exam during our regularly scheduled class time on the evening of Monday, December 9, 2013, or you will receive an "F" in the course.

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**3 exams count 100 points each: 300 points** (poorest score of 4 exams is dropped)  
**2 quizzes count 25 points each: 50 points** (poorest 2 scores of 4 quizzes are dropped)  
**1 final exam counts 150 points: 150 points** (the final exam is NEVER dropped)

**Total possible: 500 points**

**Attendance:** Students are expected to be in class **on time** every day and to participate in class activities. Missed in-class activities cannot be made up. College policy states that the instructor may drop a student who has missed more than five hours of class. I intend to exercise this option, especially if you are not maintaining at least a “C” in the course.

**Grades:** A standard letter-grade scale will be used:

A: 90% - 100%;    B: 80% - 89.99%;    C: 70% – 79.99%;    D: 60% - 69.99%

Fail: below 60%

Should you be within a half-percent of a higher grade at the end of the course, and your final exam percent is better than your overall percent, I will *consider* moving your grade up. Otherwise, your grade will not be moved up.

<b>Important dates:</b>	<b>Last day to drop without a “W”:</b>	<b>Friday, September 6</b>
	<b>Last day to drop with a “W”:</b>	<b>Friday, November 15</b>
	<b>Final exam:</b>	<b>Monday, December 9</b>

If you decide you cannot finish the course with a satisfactory grade, it is your responsibility to <i>withdraw officially</i> , on or before <b>November 15, 2013.</b>
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**Additional Notes:**

- Please abide by the college policy of no food or beverage in class, other than water.
- Please turn off all electronic devices, other than graphing calculators.
- Students are advised to form informal study groups outside of class. Most students find that this enhances success for everyone involved.
- Please have a textbook on your first day of attendance.

**Calendar:** I am providing a calendar showing holidays, drop deadlines, dates of exams and quizzes. The purpose of homework is to practice for exams. *It is important that you review and understand all example problems in each section.* The course includes a great deal of material, so it is important that you use the homework problems to develop a thorough *understanding* of the mathematics.

## Math 261 Calendar – Fall of 2013 WLAC – Mr. Borsum

- The following calendar shows sections to be discussed in class on each meeting day.
- This schedule is subject to change by the instructor.
- Homework on each section should be completed by the following Monday.
- Homework will *not* be checked. However, if you have a thorough understanding of the odd-numbered problems in each section, you should find exam questions to be similar.
- I was able to find a *pdf* file of the solutions to our text by googling “james stewart solution manual 5e”

Dates	Monday	Wednesday
<b>8/26 &amp; 8/28</b>	1.1, 1.2, 1.3	1.4, 2.1, 2.2
<b>9/2 &amp; 9/4</b> 9/6	Holiday	2.3, 2.4 <i>Last day to drop w/o a W</i>
<b>9/9 &amp; 9/11</b>	2.5, 2.6 <i>Quiz: 1.1 – 2.2</i>	Review
<b>9/16 &amp; 9/18</b>	Exam: Chapters 1 & 2	3.1, 3.2
<b>9/23 &amp; 9/25</b>	3.3, 3.4	3.5, 3.6
<b>9/30 &amp; 10/2</b>	3.7, 3.8 <i>Quiz: 3.1 – 3.4</i>	3.9, 3.10
<b>10/7 &amp; 10/9</b>	Review	Exam: Chapter 3
<b>10/14 &amp; 10/16</b>	4.1, 4.2	4.3, 4.4
<b>10/21 &amp; 10/23</b>	4.5, 4.6	4.7, 4.8 <i>Quiz: 4.1 – 4.4</i>
<b>10/28 &amp; 10/30</b>	4.9, 4.10	Review
<b>11/4 &amp; 11/6</b>	Exam: Chapter 4	5.1, 5.2
<b>11/11 &amp; 11/13</b> 11/15	Holiday	5.3, 5.4 <i>Last day to drop w/ a W</i>
<b>11/18 &amp; 11/20</b>	5.5, 6.1	6.2, 6.3 <i>Quiz: 5.1 – 5.4</i>
<b>11/25 &amp; 11/27</b>	6.4, 6.5	Review
<b>12/2 &amp; 12/4</b>	Exam: Chapters 5 & 6	Review
<b>12/9 &amp; 12/11</b>	**FINAL EXAM**	

