

Course:	<b>Analytic Geometry and Calculus II</b>
Professor:	Lyudmyla Barannyk
Office:	317 Brink Hall
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Office Hours:	M 3:30 - 4:30 pm, W 2:30 - 3:30 pm, Th 4:30-5:30 pm or by appointment
Book:	<i>Calculus</i> by William L. Briggs & Lyle Cochran 1st Edition, Pearson Publishing Company
Time:	MTRF 2:30 - 3:20 pm
Location:	TLC 028

**Polya Center:** For additional help, visit the Calc I & II Room in the POLYA Center in Brink Hall. The hours for POLYA can be found on <http://www.webpages.uidaho.edu/polya/>.

There is a class email list: [math175-04-sp14@uidaho.edu](mailto:math175-04-sp14@uidaho.edu). You can make an alias for it. You can use the email list to ask me questions that might be of interest to others in the class. You can also email me at [barannyk@uidaho.edu](mailto:barannyk@uidaho.edu) with other questions.

**Course web sites:**

<http://www.webpages.uidaho.edu/~barannyk/Teaching/Math175.html>

<http://www.mymathlab.com/>

<http://www.webpages.uidaho.edu/math175/>

<http://www.webpages.uidaho.edu/polya/math170/modules/>

**Topics:**

- Logarithmic and Exponential Functions (Chapter 7)
- Integration Techniques (Chapter 8)
- Sequences and Infinite Series (Chapter 9)
- Power Series (Chapter 10)
- Applications of Integration (Chapter 6)

**Exams:** *Exam 1*, Thursday, February 6 in class, TLC 028

*Exam 2*, Thursday, March 6 in class, TLC 028

*Exam 3*, Thursday, April 3 in class, TLC 028

*Exam 4*, Friday, April 25 in class, TLC 028

*Final Exam* - Thursday, May 15, 3 – 5 pm, TLC 028

**Exam Policy:** Exams will be in class, closed books and notes. Calculators will not be allowed. The exams will be written with this in mind.

**Quizzes:** There will be bi-weekly quizzes that will test one of the homework problems.

**Online Homework:** MyMathLab homework available on <http://www.mymathlab.com/> will generally be due at 11:55 pm two days after it is assigned. Course ID: barannyk13825.

**Written Homework:** There will be weekly written homework assignments that will consist of assigned and suggested homework problems chosen from the textbook. The assigned problems will be

collected for grading. A random selection of problems will be graded. Homework will generally be assigned on Friday and due the next Friday at the beginning of the class. Part of your homework grade will be based on neatness and correct mathematical notation. Your homework should be organized and easy for me to read or else you will lose points. Specifically, write your name in the top right-hand corner, staple your work in the top left-hand corner, tear off any fringes and leave plenty of space between problems. Pencil is preferred. Students are required to solve all homework problems after each lecture in order to gain a better understanding of the course material and prepare for quizzes and exams.

**Matlab assignments:** There will be one or two Matlab assignments. Matlab is a technical computing environment for numerical computation and visualization produced by The MathWorks, Inc. <http://www.mathworks.com/>. We will learn basics of symbolic computation, graphics and plotting using Matlab. Matlab is available in all computer labs.

**Course Grade:**

- Exam 1: 10%;
- Exam 2: 15%
- Exam 3: 15%
- Exam 4: 15%
- Final Comprehensive Exam: 20%
- Online Homework: 10%
- Written Homework, Quizzes and Matlab assignments: 15%

**Late Policy:** If you have a University excuse (see below), you can get an extension for homework or arrange for a make-up test. A make-up test will only be allowed if you contact me prior to the time of the test. Regular, non-emergency, dental and doctor check-ups should be scheduled at a time when you are not in class.

*An excused absence is defined by University of Idaho policy as a) an approved field trip or other official UI activity; b) confinement under doctor's orders; c) call to military duty; or d) leave of absence granted by student's academic dean.*

**Learning Outcomes for Math 175**

- The student will master the standard integration techniques, and develop the ability to judge which techniques are appropriate on given problems.
- The student will master more advanced topics from integral calculus such as L'Hopital's Rule and improper integrals.
- The student will be able to set up definite integrals for computing quantities such as areas, arc lengths, and surface areas, whether in rectangular or polar coordinates.
- The student will understand the basic definitions for sequences and series, as well as the fundamental notions for power series representation of functions.