

## Welcome to my Math 1413 class!

Note that this course requires online homework on **MyMathlab website**, not **CourseDen**.

Please see attached files for the syllabus of this course and online Mymathlab registration for access to homework

Please follow the attached instruction to register on MyMathlab. I suggest you **to register using temporary access** (free for 14 days before you can upgrade access) and starting to do the homework. **Once you registered, you will have access to ebook and can do the required online homework. So textbook is not required** for this class. But you do have an option to buy the brand new textbook with unused access code which is more expensive than just buying an access code.

Visit the following website for common questions about access code:

[http://help.pearsoncmg.com/rumba/mylab\\_mastering\\_self-reg/en-en/Content/mm\\_access\\_code.html](http://help.pearsoncmg.com/rumba/mylab_mastering_self-reg/en-en/Content/mm_access_code.html)

Visit the following website for Student Support about how to set up your computer and how to get registered

<https://www.pearsonmylabandmastering.com/northamerica/mymathlab/students/support/index.html>

Please let me know if you have any questions.

## Student Registration Instructions

---

### To register for **Spring 2020 Math 1413-Section 03, Dr. Rui Xu**:

1. Go to <https://www.pearson.com/mylab>.
2. Under Register, select **Student**.
3. Confirm you have the information needed, then select **OK! Register now**.
4. Enter your instructor's course ID: **xu84412**, and **Continue**.
5. Enter your existing Pearson account **username** and **password** to **Sign In**.  
You have an account if you have ever used a MyLab or Mastering product.
  - » If you don't have an account, select **Create** and complete the required fields.
6. Select an access option.
  - » Enter the access code that came with your textbook or that you purchased separately from the bookstore.
  - » If available for your course,
    - Buy access using a credit card or PayPal.
    - Get temporary access.

If you're taking another semester of a course, you skip this step.
7. From the You're Done! page, select **Go To My Courses**.
8. On the My Courses page, select the course name **Spring 2020 Math 1413-Section 03, Dr. Rui Xu** to start your work.

### To sign in later:

1. Go to <https://www.pearson.com/mylab>.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password**, and **Sign In**.
4. Select the course name **Spring 2020 Math 1413-Section 03, Dr. Rui Xu** to start your work.

### To upgrade temporary access to full access:

1. Go to <https://www.pearson.com/mylab>.
2. Select **Sign In**.
3. Enter your Pearson account **username** and **password**, and **Sign In**.
4. Select **Upgrade access** for **Spring 2020 Math 1413-Section 03, Dr. Rui Xu**.
5. Enter an access code or buy access with a credit card or PayPal.

# MATH 1413 – Survey of Calculus (Section 03) Spring 2020

TR 11:00 am – 12:15 pm 306 Pafford-Social Science Building

**Prerequisites:** MATH 1113 or MATH 1111 or MAT 151 (Minimum Grade: C).

**Instructor:** Dr. Rui Xu

**Office:** 319 Boyd Bldg

**Phone:** (678)839-4122

**E-mail:** xu@westga.edu

**Website:** <http://www.westga.edu/~xu/>

**Office hours:** TR 9:00 am – 11:00 am or by appointment.

**Textbook:** Bittinger & Ellenbogen, *Calculus and Its Applications*, 11th Edition, Addison Wesley.

**Course Description:** This course will provide a survey of the differential and integral calculus of polynomial, rational, exponential, and logarithmic functions with an emphasis on applications to problems from business, economics and life sciences..

**Topics:** Limits: A Numerical and Graphical Approach; Algebraic Limits and Continuity; Average Rates of Change; Differentiation Using Limits of Difference Quotients; Differentiation Techniques: The Power and Sum-Difference Rules; Differentiation Techniques: The Product and Quotient Rules; The Chain Rule; Higher-Order Derivatives; Using First Derivative to Find Maximum and Minimum Values and Sketch Graphs; Using Second Derivative to Find Maximum and Minimum Values and Sketch Graphs; Using Derivatives to Find Absolute Maximum and Minimum Values; Maximum-Minimum Problems: Business and Economic Applications; Marginals and Differentials; Implicit Differentiation and Related Rates; Exponential Functions; Logarithmic Functions; An Economics Application: Elasticity of Demand; Area, Antiderivatives and Integrals; Area and Definite Integrals; Integration Techniques: Substitution; An Economics Application: Consumer Surplus, Producer Surplus (time permitting)

## Learning Outcomes:

1. The student will be able to compute limits.
2. The student will be able to differentiate polynomial, rational, exponential, and logarithmic functions.
3. The student will be able to apply differential calculus to problems from business, economics, and life science.
4. The student will be able to integrate polynomial, rational, exponential, and logarithmic functions and to apply the Fundamental Theorem of Calculus.
5. The student will be able to apply integral calculus to problems from business, economics, and life science.
6. The student will understand the basic techniques of integration.

**Grading Methods:** Grades will be assessed based on a total of 678 points (as shown below), using the standard decade scale: (90–100%=A, 80–89%=B, 70–79%=C , 60–69%=D, below 60%=F).

Test 1 Section 1.1-1.5	100 pts
Test 2 Section 1.6-2.2	100 pts
Test 3 Section 2.4-2.8	100 pts
Test 4 Section 3.1, 3.2, 4.1, 4.3, 4.5	100 pts
Final (Comprehensive) May 5, 11:00 am-1:00 pm	150 pts
Homework	108 pts
Attendance	20 pts
<b>Total</b>	<b>678 pts</b>

**Homework & Test policy:** There will be one homework assignment for each section. The lowest 3 homework scores will be dropped. Makeup tests will be granted only for excused absences (scheduled University-approved activities such as field trips, debate trips, choir trips, and athletic contests, or verifiable medical doctor's excuse). In that case, the student is required to contact the instructor in advance to reschedule the makeup test. If that is impossible, the student must contact the instructor the same day of the test by email or phone to let the instructor know. All students are required to take the final exam at the scheduled time and no makeup for final exam.

**Other Policies:**

1. Class attendance will be taken every class day. Tardies and early leaves are not allowed. Students are allowed to miss at most 3 classes to get the full 20 pts for attendance and will lose 5 pts for each additional absence.
2. Cell phones should be set to an inaudible setting. When taking test/exam, all students are required to put their backpacks, phones, smart watches etc in the front of the classroom. The students can only have pen/pencil and calculator.
3. The instructor follows the common university policies as shown on the website below:

[http://www.westga.edu/assetsDept/vpaa/Common.Language\\_for\\_Course\\_Syllabi.pdf](http://www.westga.edu/assetsDept/vpaa/Common.Language_for_Course_Syllabi.pdf)

**Important Dates:**

- Jan 4-10 : Open Drop ends at 11:59 pm Jan 10th
- Jan 4-10 : Open Add ends at 11:59 pm Jan 10th
- Jan 20 : MLK Day Holiday, campus closed
- Feb 28 : Last day to withdraw with a grade of W
- Mar 16-20 : Spring Break (no classes)
- April 23 : Last Day of Class
- May 5 (Tuesday) : Final Exam 11:00 am–1:00 pm