

Course: MATH 1413 Survey of Calculus, Section NO1 (online) 3 credits
PREREQUISITE: Math 1111 (college algebra) or Placement by SAT/ACT score.

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.

Learning Outcomes: Students should be able to demonstrate:

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 real world problems.
4. The student will understand the basic techniques of integration.
5. The student will be able to integrate functions and to apply the Fundamental Theorem of Calculus.
6. The student will be able to apply integral calculus to real world problems.

Instructor: Mr. Jim Bellon (best way to contact me is through CourseDen) or jbellon@westga.edu

Office & Hours: Boyd 104C Mon 11am-12pm & 2-3pm, Wed 2-3pm
Boyd 205 Math tutoring Center Mon 12-2pm, Wed 9-11am & 12-2pm
ONLINE in CourseDen, LIVE Webinar Tue & Thu 7-8pm (ask questions and get help)

Class Meets: In UWG's CourseDen for class information and communication,

- at UWG or an approved testing center for the proctored midterm and final exams,
- on Pearson publisher's MyMathLab website for online assignments, quizzes.

Course Materials: #1 A graphing calculator is REQUIRED (preferably one of the TI-83 or 84 models).
#2 You are required to purchase access to the **MyMathLab** site and **e-book**.
See CourseDen Week 1 module for more MyMathLab information.

The actual textbook is optional. "Calculus and its Applications" 11th ed by Bittinger/Ellenbogen, Pearson publishers.

Grading: Online HW's (avg counts 30%, lowest dropped), online quizzes (avg counts 20%, lowest dropped)
Participation tasks in CourseDen (including discussion posts, avg counts 10%), PROJECT (10%)
PROCTORED midterm exam & final exam (online, each counts 15%),
Final grades determined as follows:

89.5 % and higher	=	A
79.5 % to 89.4 %	=	B
70 % to 79.4 %	=	C
60 % to 69.9 %	=	D
Below 60 %	=	F

Make-up policy: There are no make-ups for online assignments. You are expected to keep up with learning the material each week, completing assignments by the due dates, and getting help when needed.

Extra-credit policy: There will be NO extra credit given, period! Points can be earned only as stated above, except: The Are You Ready Quiz does NOT officially count as a grade, HOWEVER, if you do well on your best attempt, I will count it to replace a low quiz score during the course

Attendance Policy: Students are REQUIRED to login and enter MATH 1413 in CourseDen at least once a week and do the weekly participation tasks. Also check for assignments on MyMathLab. Failure to do so will result in missing assignments and maybe being dropped.

Last Date to Withdraw: *Thursday March 2nd* Any student who withdraws after this date will receive a grade of F.

Class Rules: It is expected that students be familiar with the Student Conduct Code, Disciplinary Procedures and Disciplinary Sanctions in the Student Handbook. Cheating and/or any conduct that disturbs the classroom, the instructor, or the students WILL NOT be tolerated!! Any serious violations will be reported; appropriate actions will be taken; and consequences will result. Please see the general policies for UWG at <http://tinyurl.com/UWGSyllabusPolicies>.

Math Tutoring: On Campus:
**Offered by the math Department in Boyd 205, you can just walk in and get help.
Hours are Mon/Wed 9am-8pm, Tue/Thurs 11am-8pm, Fri 9am-3pm
There are 2-3 tutors on duty who will rotate between students.
There are also textbooks and computers to use while you are in the tutoring center.

** Offered by the Center for Academic Success in UCC building. You will be assigned a 1-1 personal tutor, or attend available drop in sessions.

ONLINE: you can get help 24/7 through SmartThinking tutors via the link in CourseDen.

Proctored Exams: The midterm and final exams must be taken at a location with a proctor. You will take the exam online in MyMathLab. You can take it any day/time by appointment during the time period for that test (see schedule on next page as well as CourseDen calendar). Details about testing locations will be sent out during the semester. There are testing sites at UWG Carrollton and Newnan as well as several approved sites across Georgia. The sites usually charge a fee, which will be your responsibility. There will also be a virtual option, monitored by the third party ProctorU, allowing you to take the test on your own computer anywhere that is secure.

NOTE: online assignments will be open and available at least one week before due date. You can continue to reenter and work HW up until the due date, then only review after that. Quizzes will be open for 3 day window. You must complete quizzes in one timed session, then you can see your score and review, then you can retake the quiz and review again.

Project: The project will be a way for you to understand how calculus can be used in a business setting by you creating your own business idea for selling an item. You will be given an equation that relates the demand (X units) of your product to the price that must be charged in order to sell that demand, as well as an equation to represent your overall costs (both fixed and variable) based on the demand X. You will use business concepts and calculus to derive several other function equations for your business forecast and then submit a report with some calculations and explanations of the dollar values for you business. It will be a powerpoint for the summary of results, with appendix containing the calculations that can be in any readable form to show the calculations.

This is a summary of weekly assignments. You may read ahead and complete assignments early when available. Each week, you should go into CourseDen and click on the tasks listed in each WEEKLY module. Read the lessons from the ebook on MyMathLab, then complete all related assignments by the end of the day (midnight) on the dates shown. Start early, don't wait until the final day. That way you can get help, review the material again. **Any updates will be shown on CourseDen and MyMathLab calendars and will be the dates to which you are held accountable.

- WEEK 1 Mon 1/9 – Sun 1/15 In CourseDen (D2L) open the module **WEEK 1 (start here)** and follow the tasks.
1. Read through this syllabus and make note of important info and dates
 2. **Meet instructor LIVE Tues 1/10, 7-8pm online. Follow link in CourseDen.**
 3. Take the syllabus quiz in CourseDen (***participation grade AND Attendance**)
 4. Post your intro in CourseDen discussion (***participation grade due Sun 1/15**)
 5. Get setup in MyMathLab and do **Browser Check** and **How to Enter Answers**
 6. Take the Are You Ready quiz in MyMathLab
 7. Read through the ebook in MyMathLab and study any topics that you missed on the Are You Ready Quiz or you feel you don't know well (Sections R1 – R5)
- WEEK 2 Mon 1/16 – Sun 1/22 In CourseDen (D2L) open the module **WEEK 2** and follow the tasks.
1. **Meet with instructor LIVE Tues 1/17, 7-8pm online. Follow link in CourseDen.**
 2. Do the HW for the review sections in MyMathLab (***HW grade due Wed 1/18**)
 3. Reading the ebook in MyMathLab sections 1.1, 1.2
 4. Do HW for the above sections in MyMathLab (***HW grade due Sun 1/22**)
 5. Reply to 2 students in the intro discussion (***participation grade due Sun 1/22**)
- WEEK 3 Mon 1/23 – Sun 1/29 In CourseDen (D2L) open the module **WEEK 3** and follow the tasks.
1. **Meet with instructor LIVE Tues 1/24, 7-8pm online. Follow link in CourseDen.**
 2. Make appointment for midterm exam (***participation grade due Fri 1/27**)
 3. Read the ebook in MyMathLab sections 1.3, 1.4
 4. Do HW for the above sections in MyMathLab (***HW grade due Sun 1/29**)
- WEEK 4 Mon 1/30 – Sun 2/5 In CourseDen (D2L) open the module **WEEK 4** and follow the tasks.
1. **Meet with instructor LIVE Tues 1/31, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab sections 1.5, 1.6
 3. Do HW for the above sections in MyMathLab (***HW grade due Sun 2/5**)
 4. Post to Math Discussion #1 (***participation grade due Sun 2/5**)
- WEEK 5 Mon 2/6 – Sun 2/12 In CourseDen (D2L) open the module **WEEK 5** and follow the tasks.
1. **Meet with instructor LIVE Tues 2/7, 7-8pm online. Follow link in CourseDen.**
 2. Take QUIZ #1 in MyMathLab (***QUIZ grade due Wed 2/8**)
 3. Read the ebook in MyMathLab sections 1.7, 1.8
 4. Do HW for the above sections in MyMathLab (***HW grade due Sun 2/12**)
 5. Reply to 2 students in Math discussion #1 (***participation grade due Sun 2/12**)
- WEEK 6 Mon 2/13 – Sun 2/19 In CourseDen (D2L) open the module **WEEK 6** and follow the tasks.
1. **Meet with instructor LIVE Tues 2/14, 7-8pm online. Follow link in CourseDen.**
 2. Make appointment for final exam (***participation grade due Fri 2/17**)
 3. Read the ebook in MyMathLab sections 2.1, 2.2
 4. Do HW for the above sections in MyMathLab (***HW grade due Sun 2/19**)
- WEEK 7 Mon 2/20 – Sun 2/26 In CourseDen (D2L) open the module **WEEK 7** and follow the tasks.
1. **Meet with instructor LIVE Tues 2/21, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab sections 2.4, 2.5
 3. Do HW for the above sections in MyMathLab (***HW grade due Wed 2/22**)
 4. Take QUIZ #2 in MyMathLab (***QUIZ grade due Fri 2/24**)
 5. Take the practice midterm in MyMathLab (***participation grade due Sun 2/26**)

- WEEK 8 Mon 2/27 – Sun 3/5 In CourseDen (D2L) open the module **WEEK 8** and follow the tasks.
1. **Meet with instructor LIVE Sun 2/26, 7-8pm online for help preparing.**
 2. Take your midterm exam during your appointment. (***midterm exam grade**)
** midterm must be taken during period Mon 2/27 to Sat 3/4 **
 3. Get Project info and choose your topic (***participation grade due Sun 3/5**)
- WEEK 9 Mon 3/6 – Sun 3/12 In CourseDen (D2L) open the module **WEEK 9** and follow the tasks.
1. **Meet with instructor LIVE Tues 3/7, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab sections 2.6, 2.7
 3. Do HW for the above section in MyMathLab (***HW grade due Sun 3/12**)
 4. Post to Math Discussion #2 (***participation grade due Sun 3/12**)
- WEEK 10 Mon 3/13 – Sun 3/19 In CourseDen (D2L) open the module **WEEK 10** and follow the tasks.
1. **Meet with instructor LIVE Tues 3/14, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab section 2.8
 3. Do HW for the above sections in MyMathLab (***HW grade due Thu 3/16**)
 4. Take QUIZ #3 in MyMathLab (***QUIZ grade due Sun 3/19**)
 5. Reply to 2 students in Math discussion #2 (***participation grade due Sun 3/19**)
- MON 3/20 to SUN 3/26 *****SPRING BREAK *******
- WEEK 11 Mon 3/27 – Sun 4/2 In CourseDen (D2L) open the module **WEEK 11** and follow the tasks.
1. **Meet with instructor LIVE Tues 3/28, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab sections 3.1, 3.2
 3. Do HW for the above sections in MyMathLab (***HW grade due Sun 4/2**)
 4. Post to Math Discussion #3 (***participation grade due Sun 4/2**)
- WEEK 12 Mon 4/3 – Sun 4/9 In CourseDen (D2L) open the module **WEEK 12** and follow the tasks.
1. **Meet with instructor LIVE Tues 4/4, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab section 3.5, 3.6
 3. Do HW for the above sections in MyMathLab (***HW grade due Fri 4/7**)
 4. Take QUIZ #4 in MyMathLab (***QUIZ grade due Sun 4/9**)
 5. Reply to 2 students in Math discussion #3 (***participation grade due Sun 4/9**)
- WEEK 13 Mon 4/10 – Sun 4/16 In CourseDen (D2L) open the module **WEEK 13** and follow the tasks.
1. **Meet with instructor LIVE Tues 4/11, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab sections 4.1, 4.2
 3. Do HW for the above sections in MyMathLab (***HW grade due Fri 4/14**)
 4. Post to Math Discussion #4 (***participation grade due Sun 4/16**)
 5. Project draft due (***participation grade due Sun 4/16**)
- WEEK 14 Mon 4/17 – Sun 4/23 In CourseDen (D2L) open the module **WEEK 14** and follow the tasks.
1. **Meet with instructor LIVE Tues 4/18, 7-8pm online. Follow link in CourseDen.**
 2. Read the ebook in MyMathLab sections 4.4, 4.5
 3. Do HW for the above sections in MyMathLab (***HW grade due Sun 4/23**)
 4. Reply to 2 students in Math discussion #4 (***participation grade due Sun 4/23**)
- WEEK 15 Mon 4/24 – Sun 4/30 In CourseDen (D2L) open the module **WEEK 15** and follow the tasks.
1. **Meet with instructor LIVE Tue 4/25, 7-8pm online. Follow link in CourseDen.**
 2. Take QUIZ #5 in MyMathLab (***QUIZ grade due Tue 4/25**)
 3. Read the ebook in MyMathLab section 5.1
 4. Do HW for the above sections in MyMathLab (***HW grade due Fri 4/28**)
 5. Final Project Due (***Project grade due Sun 4/30**)
 6. Do Online Course Evaluation, follow link in CourseDen. (***participation grade**)
 7. Take the practice final exam in MyMathLab (***participation grade due Tue 5/2**)
- FINALS WEEK Wed 5/3 – Mon 5/8 Take Final Exam during your appointment (***Final Exam grade**)
** final must be taken during period Wed 5/3 to Mon 5/8 **
Meet with instructor LIVE Tue 5/2, 7-8pm online for help preparing.