George Mason University
MATH-124 – Calculus I (3 credits)
Spring 2019

Instructor:	**Joanna Jauchen**
Email:	**jjauchen@gmu.edu**

Email is the best way to reach me after you have exhausted these options:
1. Read the syllabus.
2. Look at the announcements on Blackboard.
3. Listen carefully when I'm making announcements in class. This means you have to be on time.
4. If you miss class, ask another student what you missed. This is not a reason for emailing me.

All math questions should be asked in person after class, during office hours or with Learning assistants.

Instructor Policies:
1. Work should be done in pencil.
2. I do not accept late work.
3. No computers or cell phones are allowed to be used during class. Please turn your phone off/silent and put it away upon entering class.

Office Address: Exploratory Hall, room 4403

Office Hours & Location:
Tues 9:00 – 10:15 am Exploratory 4403
Thurs 9:30* – 10:15 am Exploratory 4403
Also by appointment

Class Meeting Time and Location:
Robinson B 118
TR   10:30 am – 11:45 am

Required Materials:
1. *Thomas' Calculus: Early Transcendentals*, 14th edition, by Hass, Heil, & Weir. If you already have a book, or had mml access previously, you do not need to buy another one.
2. Access Code for MyMathLab (included with the purchase of a new book) Code with ebook included (http://www.mymathlab.com). If you had MML access before, you do not need to purchase this again.
3. We sometimes will use scientific calculators in class. They will not be allowed on exams, and I suggest you get used to not using one.

Course Description:
This is the second part of a two semester sequence that covers algebra through basic calculus covered in Math 113. Math 124 will review basic differentiation and applications and then proceed to cover integration including transcendental functions. You must have received a minimum of a C in Math 123 in order to take this course. We generally cover Chapters 3 – 6 in the text. A comfortable working knowledge of Appendix A and Chapters 1 -3 is assumed. The course requires a serious time commitment, both in attendance and outside time for homework and studying.
      a.

Attendance:	The best chance of passing this course comes from 1) attending class, and 2) doing the work.
	If you miss class, you miss the opportunity for help on the material presented, discussed and worked on that day in class. Regardless of whether you are present or absent from class, **you** are responsible for everything that happens in class (assignments, homework, quizzes, etc).
	I take attendance every class. You get one attendance grade per week, counted In-Class quiz grades. The grading is done on an all-or-nothing scale as follows:

- Present for all classtime for two classes – 10 points
- Absent for part or all of either class – 0 points

I understand that sometimes people are sick or have conflicts with class. A reasonable number of absences should not adversely affect your grade. I do not track excused or unexcused absences in this course.

School Closure	In case of school closure, late start, or canceled class, you will have video lecture from me and assignments, so check your email. I try to keep this class on schedule as best I can.
Homework:	Working homework is the most important part of the learning process in this course. Please be sure you have allocated enough time for this course.
	Homework is assigned in MyMathLab and by hand.
MyMathLab:	MyMathLab is an online software system that accompanies your textbook. MyMathLab homework for the week is due Monday at 11:59 pm. See MyMathLab for dates for specific assignments.
	If you had a code for 123, you should be automatically given access to 124 through the signup process. If you have trouble registering, do not buy a new code. Just go through Pearson support to get the access you already paid for.

To sign up:
1. Login to our blackboard course at mymason.gmu.edu
2. Click on "MyMathLab" on the left.
3. If you have a Pearson account, then login. Otherwise, sign up for a new account.
4. Select an option
    a. Use an access code (if you bought a new book, you got one of these).
    b. Buy access online with a credit card
    c. Get 17 days of temporary access (look for the tiny blue link at the bottom of the page)

MyMathLab Technical Support: http://247pearsoned.custhelp.com (available 24 hours a day)
Pearson Customer Service and Technical Support: 800-677-6337.

MML is a computer graded system. If you get problems right, they are marked correct. There is no partial credit on individual questions. The computer system, like most technical systems is picky about inputs, so please check your answers before submitting your work.

MyMathLab is accepted two days late for a 20% penalty.

In-Class /Quizzes/ Preparation:	You need to prepare for every class. This includes reading the material that we will be covering in lecture, taking notes over your reading and working the examples, and doing any other problems I assign. You will turn something in to me every day in class. Sometimes these are pop-quizzes given randomly in class throughout the semester. I also give "quizzes" that are things like checking if you did the preparation work, asking you to work with other people etc. No make-up quizzes are given. Two quiz grades are dropped to account for late-adding the course, illness, car trouble, or any other excused or unexcused absences.

Tests & Final Exam:

There are 3 exams in this course, and one comprehensive final exam. There are no make-up exams unless you have a documented excused absence (that is an absence that I consider excused, like being in the hospital). Decisions about excused absences are solely at the discretion of the instructor.

Exam dates are provided on the last page in the schedule. I reserve the right to change exam dates as the semester progresses. The final exam date is given in the schedule on the last page of the syllabus. There are no make-ups for the Final Exam.

All exams are given to uphold strict academic integrity standards. The following policies are in place for each exam.

1. No collaboration is allowed on the exams. Any indication that you have worked together, used someone else's ideas, copied, or allowed a fellow student to copy your work is a violation of the GMU Honor Code. The exam should be your work and your work only.
2. No calculator is allowed on exams except where noted. No other books, notes, cell phones, computers or aids may be used. Having access to any unauthorized materials, calculators or devices while you are in possession of the exam is a violation of the academic honesty code.
3. Seats are assigned during each exam. Once you receive the exam, you are not allowed to leave the exam room until you are ready to turn the exam in.

Exam Corrections

Exam corrections are due one week after exams are returned at the beginning of class. No late exam corrections are accepted for credit. Please follow these instructions:
1. Do not write on your original exam at all. Turn this in with your corrections.
2. Fully rework any problem that you missed, even if you just missed a part of it. So if you had points deducted on problem 2a, you need to rework *all* of problem 2a, not just part of it. But if you got 2b right, you don't have to rework that. Please ask if you have questions.
3. Exam corrections need to be submitted in order, stapled to the back of your original exam.
4. To complete exam corrections, you are welcome to come work with me, or one of the LAs. You *may not* work with other students or look at your fellow students' solutions to see what they did.

Grading on Exam Corrections is all or nothing, out of the number of points you missed on the exam. No partial credit. So if you missed 20 points on the original exam, and earned 15 back on the corrections, your grade on the corrections is 15/20 = 75. Your original exam grade is not affected by exam corrections.

Requirements and Grading:

3 Unit Tests	45%
Exam Corrections	15%
Homework/Quizzes/MML	20%
Comprehensive Final Exam	20%

Scale:

100-90	A
89-80	B
79-70	C
69-60	D
59-0	F
+/-	Added at Instructor discretion

Withdraw & Audit	See the GMU website for important add/drop deadlines: http://registrar.gmu.edu/calendars/
Tutoring:	The Math Tutoring Center is located in the Johnson Center Room 344. Help is available on a walk-in basis. For hours of operation see *http://math.gmu.edu/tutorcenter.htm*
	The Volgenau School of Engineering also offers peer tutors. http://volgenau.gmu.edu/undergraduates/peer-mentors
	MyMathLab is also a resource available for this class. In MML there are lecture videos, and step - by-step instructions on how to complete homework problems.
Academic dishonesty and the GMU Honor Code:	You are expected to follow the GMU Honor Code *http://academicintegrity.gmu.edu/honorcode/*
	No collaboration is allowed on quizzes or tests. Any indication that you have worked together, used someone else's ideas, copied, or allowed fellow student to copy your work is a violation of the GMU Honor Code.

Some of the behaviors that will be considered cheating are:
- Communicating with another person during an assessment
- Copying material from another person from any assignment being graded
- Allowing another person to copy from any assignment being graded
- Use of unauthorized assistance on any assignment being graded
- Use of unauthorized notes or books during an assessment
- Providing or receiving a copy of a quiz or exam used in the course
- Use of a cell phone during an assessment

Learning Differences & Special Needs	If you have a learning or physical difference that may affect your academic work, please see me and contact the Office of Disability Services (ODS) at 993-2474, http://ods.gmu.edu . All academic accommodations must be arranged through the ODS.

MATH-124 - Calculus (3 credits)   Course dates are tentative and subject to change.

Week	Class	Topic
1	1/22	Class Introduction/Syllabus/Grade Policy Discussion 3.1 – 3.5 Review
	1/24	3.1 – 3.5 Review of Derivatives
2	1/29	3.6 The Chain Rule
	1/31	3.7 Implicit Differentiation
3	2/5	3.8 Derivatives of Logarithmic and Exponential Functions
	2/7	3.9 Inverse Trig Functions and Derivatives of Inverse Trig Functions
4	2/12	3.10 Related Rates
	2/14	3.11 Linearization and Differentials
5	2/19	Make-up Day
	2/21	Make-up Day
	2/18 -2/22	**Exam 1 Given in Math Testing Center (Dates Approximate)**
6	2/26	4.1 Extreme Values of Functions
	2/28	4.2 Mean Value Theorem
7	3/6	4.3 Monotonic Functions and the First Derivative Test
	3/7	4.4 Concavity and Curve Sketching
8	**3/11 – 3/15**	**Spring Break**
9	3/19	4.5 Indeterminate Forms and L'Hopital's Rule
	3/21	4.6 Applied Optimization
10	3/26	4.7 Newton's Method
	3/28	4.8 Antiderivatives
11	4/2	Make-up Day
	4/4	Make-up Day
	4/1 – 4/5	**Exam 2 Given in Math Testing Center (Dates Approximate)**
12	4/9	5.1 Area and Estimating with Finite Sums
	4/11	5.2 Sigma Notation and Limits of Finite Sums
13	4/16	5.3 The Definite Integral
	4/18	5.4 Fundamental Theorem of Calculus
14	4/23	5.5 Indefinite Integrals and the Substitution Method
	4/25	5.5 Definite Integral Substitutions and the Area between Curves
15	4/30	Make-up Day
	5/2	Make-up Day
	4/29 – 5/3	**Exam 2 Given in Math Testing Center (Dates Approximate)**
16	**5/14**	**Cumulative Final Exam 10:30 am – 1:15 pm**