MATH 113: Analytic Geometry and Calculus I
Fall 2020
Syllabus MATH113-006

Instructor: Prof Kumnit Nong Office: Virtual Meeting
Phone: **202 – 743- 0066 (call or text)**
Email: **knong@gmu.edu (Subject Line: MATH 113)**

Class time Monday and Wednesday 4:30PM – 6:20PM
Class Zoom meeting information:

Meeting ID: 999 7606 8524
Passcode: Nong113

Office Hours: Monday 3:00 PM – 4:30 PM
Appointment: Wednesday 3:00 PM – 4:30 PM

Prerequisite : C or better in MATH105 or pass a Math Placement test

Textbook: Thomas' Calculus: Early Transcendentals (14th Edition) By Hass

ONLINE ACCESS CODE NEEDED, See instruction below.
Course Code: NONG58488

Grading Policy:

- Everyone MUST have a way to scan work into PDF file format for submission to Blackboard.
- Homework assigned on mymathlab. (**10%)**
- Recitation Quizzes (see recitation syllabus for detail) **(20%)**
- Three exams **(15% each)** and Final exam (**25%)**.
- All homework will be on mymathlab.
- ALL Exams will be on mymathlab. You MUST show all work to receive credits for each exam questions. Work must be submitted on blackboard using PDF file **within 30 min** of mymathlab submission. Each exam grade will be review along with work submitted, mymathlab grade will be update accordingly. **If you do not show work, you do not earn credit.**
- If you missed any exams, you must get approval from instructor. It is up to instructor's decision to approve case by case scenario.

GMU Honor Code is in effect at all times

Final Exam Wednesday December 9, 2020 @4:30pm

Grading scale: **A+ = 99+, A = 90-98.9, B+ = 87—89.9, B = 80- 86.9,**
C+ = 78- 79.9, C = 70-77.9, D = 60-69.9, F = 59.9 or below

Honor Code: **THIS IS IMPORTANT.**
It is expected that each student in this class will conduct himself or herself within the guidelines of the Honor Code. Among other things, this means that sharing information of any kind about exams or quizzes (either before or during the exam) will result, at a minimum, in a grade of zero for all parties involved. All work must be your own and submitted by you as the student registered for the class. The right is reserved to check a picture identification during any of the exams. Internet capable devices and other electronics are not allowed to be used or within your sight during exams. This includes but is not limited to calculators, computers, cell phones, tablets and smart watches. Any of these must be turned off and put away BEFORE an exam or quiz starts. Calculators may be used on the homework if necessary. See ***academicintegrity.gmu.edu*** for a copy of the Honor Code.

Cell Phones and Computers: I expect to receive the same level of respect that I give to you. This means that cell phones and computers are not to be used during class. Your cell phone (or any internet capable device) should be on silent or vibrate during lecture and I should not see them at all during tests or quizzes. If I notice you have a cell phone (or any internet capable device) in your line of sight during a test or quiz then I will assume that it is an Honor Code violation and take appropriate action. This could result in you failing the assignment, failing the class or being suspended from the university.

Accommodations: If you are a student with a disability and you need academic accommodations, please see me and contact the office of Disability Services. All academic accommodations must be arranged through that office. Office of Disability Services Student Union Building I (SUBI), Room 4205 Phone: 703.993.2474

Unscheduled and Late Closings Policy: If the university has an unscheduled closing-because of weather or some other unforeseen occurrence you should assume that we will pick up with the schedule where we left off. In particular, if a test was scheduled for a day in which school was canceled or an assignment was due that day you should assume that the test will be given or the assignment will be collected the next time class meets. If the university has a late opening on a class day we will begin class at the time the university opens. A test scheduled for a day the university opens late will be postponed until

Final remarks: This class requires a lot of time to do all the necessary work. If you do not have the time, you are strongly urged to take this class some other semester. Obtaining Help There are many outlets available for you to get help in this class. I understand that the pace of the class is very quick so I will try to be available as much as I can to students. In addition to my set weekly office hours, I am very happy to schedule appointments.

NOTE: This is a SEMI- synchronized Classroom.

- All students expect to watch the all posted youtube lectures by professor Leonard.

- We will summarize lecture in classroom and give additional examples during class sessions.
- All students MUST sign up to mymathlab and do all homeworks and exams. (See information below.)

Pearson | MyLab | Math

Student Registration Instructions

To register for MATH113-006 (4:30PM):

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: nong58488, 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 **MATH113-006 (4:30PM)** 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 **MATH113-006 (4:30PM)** 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 **MATH113-006 (4:30PM)**.
5. Enter an access code or buy access with a credit card or PayPal.

Date	Lecture Video	Additional Lecture Videos	Homework on MML
08/24 MON	Log into MML	Read Syllabus	First day assessment Test
08/26 WED	Intro to Limits	-	MML HW CH 2.1
08/31 MON	Properties of Limits and Computation	-	MML HW CH 2.2
09/02 WED	Continuity of functions	-	MML HW CH 2.3 &2.4
09/07 MON	LABOR DAY - NO CLASS		
09/09 WED	Continuity Continue	-	MML HW CH 2.5 & 2.6
09/14 MON	Slope of a curve and it applications	-	MML HW CH 2.6
09/16 WED	Intro to derivative	Differentiation Notation and Consequences	MML HW CH 3.1 & 3.2
09/21 MON	Derivative of functions, rules, and its properties	The Product and Quotient Rules of derivative	MML HW CH 3.3
09/23 WED	Applications of the Derivative	Review & Practice Exam 1	MML HW CH 3.4
09/28 MON	EXAM 1	-	
09/30 WED	Derivative of Trigonometric Functions		MML HW CH 3.5
10/05 MON	Chain Rule	-	MML HW CH 3.6
10/07 WED	Implicit Derivative		MML HW CH 3.7
10/13 TUE	Derivative of Inverse Function		MML HW CH 3.8
10/14 WED	Derivative of Inverse Trigonometric Function		MML HW CH 3.9
10/19 MON	Increasing/Decreasing and Concavity of functions		MML HW CH 4.1
10/21 WED	Rolle's Theorem and Mean Value Theorem	Review & Practice Exam 2	MML HW CH 4.2
10/26 MON	EXAM 2		
10/28 WED	First Derivative Test		MML HW CH 4.3
11/02 MON	Second Derivative Test		MML HW CH 4.4
11/04 WED	Limits at Infinity	L'Hôpital's Rule	MML HW CH 4.5
11/09 MON	Optimization		MML HW CH 4.6 -4.7
11/11 WED	Intro to Indefinite Integral	Review & Practice Exam 3	MML HW CH 4.8
11/16 MON	EXAM 3		

11/18 WED	Area under a Curve and Riemann Sums		MML HW CH 5.1-5.2
11/23 MON	Definite Integral	The Fundamental Theorem of Calculus	MML HW CH 5.4
11/25 WED	Thanksgiving NO Class		
11/30 MON	Integration by Substitution	The Substitution Rule and Definite Integration	MML HW CH 5.5
12/02 WED	Area Between Two Curves		MML HW CH 5.6
12/07 MON	**Review & Practice FINAL**		
12/09 WED	**FINAL EXAM**		