

SYLLABUS

MTH 1410-02 : *Calculus and Analytic Geometry* Fall 2011-12

Instructor: Dr. R. Michael Canjar
Times: 10:00- 10:50 AM Monday through Thursday (in Engineering 200)

Office Hours: will be held in Engineering 323
Monday: 11:30 AM – 12:30 PM
Tuesday: 11:30- Noon
Wednesday: 11:30 AM –12:30 PM

And by appointment.
If I am not in, please check the computer lab across the hall.(E372)

Phone: **(313)-993-1209**

Internet Usage: We will use the Blackboard software which is available at
<http://knowledge.udmercy.edu/> .

Blackboard will be used for communication (e-mails and announcements) and for distributing class handouts and examples, and grades.

Please check that that your current e-mail address is registered in Blackboard. Your UDM e-mail account should have been originally already registered. It is recommended that you use that account for this course, and for all your University business.

There is a message system in the new version of Blackboard; however I am not sure how smoothly it works. **I prefer that you contact me with e-mail.** Please make a note of the following address , in case Blackboard is down. I strongly suggest adding it to your “address book”.

Home Page: <http://canjarrm.faculty.udmercy.edu/>

E-Mail: CANJARRM@udmercy.edu

E-mail is the most efficient way to reach me. Please put a note in the subject line to indicate that it concerns the Math 141 class.

If you are not using your UDM account (use of the UDM account is recommended) then there is a chance that my spam blocker may stop your e-mail. Please send me an e-mail from that account and I will send you a confirmation. If needed, I will “white-list” you e-mail address.

Text: Howard A. Anton, Stephen Davis, Irl Bivens, *Calculus, Early Transcendental, Single Variable*. John Wiley & Sons, inc , 9th edition, ISBN: 978-0-470-18204-8. <http://he-cda.wiley.com/WileyCDA/HigherEdTitle/productCd-0470182040.courseCd-MA2200.html>

Description: This course will present the basic concepts of the differential and integral calculus: Limits; Continuity; Derivatives and Integrals of Algebraic and Trigonometric Functions. Computer Laboratory included. **The list of topics is given below.**

Prerequisite: Knowledge of the following pre-calculus topic obtained by taking MTH 1400 *Elementary Functions* or by passing the placement test::

1. Basic Algebra
2. Functions and their graphs
3. Exponential and Logarithmic Function
4. Trigonometric Functions

Objectives: Upon completion of the course student will

1. Be familiar with the concepts of Limits and Continuity.
2. Be familiar with the concept of the Derivative, and be able to compute derivatives for elementary functions.
3. Be able to apply the derivative to solve appropriate problems.
4. Be familiar with the integral, and understand the relationship between integration and differentiation.

Computer Usage

Laptops are required for this course. I highly recommend that you have a laptop conforming to the E&S recommended requirements. (http://it.udmercy.edu/helpdesk/tablet_notebook_program.htm)

The computer algebraic system (CAS) Maple will be used to illustrate and reinforce the basic concepts of calculus. We will be using version 15. If you bought version 12 or 13 for a previous course you will probably be able to use it. In previous years, Maple has been included in the E&S software package.

If you did not get Maple as part of the Software package, you will be able to purchase Maple online at the student discount of \$75 online at <https://webstore.maplesoft.com> with a Promotion Code **AP74572**. It should be available in August. You can get more information is available at http://www.maplesoft.com/academic/adoptioncenter/adoptioncenter_coursesdetail.aspx?EID=7457

UAAS: Tutoring for this, and for other classes, is provided by University Academic Services at the Learning Center. <http://www.udmercy.edu/uas/>

Disability Services and Accommodations: :

If you need course accommodations because of a disability, if you have emergency medical information to share, or if you need special arrangements in case the building must be evacuated, please contact Disability Support Services. <http://www.udmercy.edu/uas/disability-support/index.htm> Students with special needs are urged to identify themselves to the faculty to discuss their concerns. However, faculty cannot provide disability accommodations without official notification from the Disability Support Services office. <http://www.udmercy.edu/uas/disability-support/index.htm>

Grading: There will be quizzes on an approximately weekly basis. Currently, I plan to give them on Tuesdays or Mondays. The first quiz is **tentatively** scheduled for **Tuesday September 13, the second one for Monday September 19** . Our computer assignments will be treated as quizzes. The lowest two scores will be dropped. The average of these quiz/project scores will count for 40% of the grade. There will be an in-class Mid-term exam which will count for 20% of the grade. There will be comprehensive final exam which will count for 40%. **The tentative exam schedule is given below.**

The following scale will be used. Pluses and Minuses will be used in borderline cases.

A	[90, 100)
B	[80, 90)
C	[70, 80)
D	[60, 69)
F	[0, 60)

Make-Up Policy:

Make-up exams will only be given to students who have serious, valid reasons for missing the exam, such as serious illness or death in the immediate family. In all cases, it is the responsibility of the student to discuss the excuse with the instructor as soon as possible. Whenever possible, this discussion should occur **before** the exam. At the instructor's discretion, a student who has missed an exam for a valid reason may simply have their other scores weighted differently to compensate. There will be no make-ups given for missed quizzes.

Academic Integrity:

Students are expected to conform to a high standard of honesty and integrity in this course. Copying the work of someone else and other forms of cheating are strictly prohibited. Permitting or tolerating such behavior is also prohibited. The minimum penalty for any offense is a 0 on that assignment. The culprits may be subject to additional sanctions, up to and including expulsion from school for serious offenses, as prescribed by the University Catalog and the Engineering and Science Student Handbook.

Tuition Refund Policy

This is primarily of concern to part-time students. You can find the refund policy at <http://www.udmercy.edu/weblink/registration/faqs/index.htm>. Note that it falls off very fast. No refund is available after two weeks. .

Inclement Weather Policy:

In the event that a class is canceled by the University due to inclement weather or other reason, I will attempt to contact you via Blackboard regarding changes in the class scheduled. Ordinarily, any exam or quiz that was scheduled for that class will take place on the next class. Other exams and quizzes will be subsequently rescheduled.

List of Topics

Review of Functions	01.-0.4; Appendix B	1.5 week
Limits and Continuity	1.1-1.3, 1.5, 1.6	2 weeks
Derivatives	2.1-2.6; 3.1,,3.5,3.4	2 weeks
Midterm Exam	Tentatively Scheduled for Thursday October 21	
Exponential and Logarithmic Fcts	0.5; 3.2 - 3.3	2 weeks
Applications of the Derivative	4.1-4.8	2.5 weeks
The Integral	5.1-5.8	2 weeks
Final Exam	Monday December 12	11:00 AM – 12:50 PM

Other Important Dates

You can also read the tentative academic calendar online. Look at AY 2011-2012 which now is the first column <http://www.udmercy.edu/registrar/academic-calendar/1214calendar3yr.pdf>. Some important dates to note are

September 12	Last Day to Add or Delete a Class
September 22	Mass of the Holy Spirit. Special Class Schedule. http://www.udmercy.edu/celebrate-spirit/
October 25	Mid-term grades Due from Faculty
November 21	Last Day to Withdraw from Class for Winter
November 24-27	Thanksgiving Recess - University Closed
December 12-17	Final Exam Week
December 17	Official End of Term I 2011-2012
December 19	Grades Due for Term II Winter 2011-2012