

# MATH DOO1A.27 CALCULUS 1A

2015 Fall De Anza T & TR 4:00 -6:15 pm G5 Course CRN: 01484

Instructor: Frank Jones Email jonesfrank@fhda.edu Office 6:15-6:45 PM. MW IN MLC270 TTh IN G5

Text: CALCULUS EARLY TRANSCENDENTAL JAMES STEWART 7<sup>th</sup>..... Edition

Last Day for Adds Oct. 3<sup>rd</sup>. 2015 , Last Day for refund and for Drops w/o W Oct. 4<sup>th</sup>., 2015,  
Census Date: Oct. 5<sup>th</sup>. 2015 Last Day for Drops (with W): NOV 13<sup>th</sup>. 2015, **See last page for SLOs**

**Scope:** All those sections of the above text listed in the 'read' and 'study' columns on the schedule attached

**Attendance:** Good grades require **regular** and **punctual** attendance. Students who miss an average of one class the 1<sup>ST</sup>. week or two in total at any time may be dropped. Tardiness and absence will be penalized. Details will be given in class. Significantly late arrival or early departure may be counted as one third of an absence. Students are responsible for their signature on the attendance sheets circulated each day. Difficulties which could cause attendance problems should, at the student's initiative, be discussed with the instructor as early as possible. Please note also that a class may not be dropped after the last date for a **W** (see above). A letter grade (most likely an **F**) will be given for all cases where classes cease to be attended and are not officially dropped before the deadline . In all cases **including non-attendance** it is the student's responsibility to get drop forms processed. **Failure to do so will result in an F.**

**Seating** may be assigned or reassigned at any time at the instructor's request

**Behavior: Cheating is a serious matter and may result in an F or even more severe actions with long term consequences.** Students will be expected to refrain from **any** behavior which in the instructor's judgment disrupts the class.

**Homework:** Homework is intended to be learning rather than a testing activity. Students should read the specified text and other sources they may find in libraries etc. Students should do any exercises specifically set and work their way through an adequate number of questions in the exercises at the end of each section of the text book covered and also the relevant exercise problems at the end of the applicable chapters. These should be worked on firstly soon after the topic is covered in class and students also should return and repeat earlier exercises at later dates for review and solidification. See the section on HOMEWORK after the Notebook section.

**Note Books:** Maintenance of a note book and a separate homework book will be required. Details are included in this document and will be explained in class.

**TI89, TI92 and cell phone calculators will NOT be allowed for Exams!**

**No cell phones, headphones or other any other electronic equipment which the instructor may designate (other than calculators) will be allowed in any class.**

**Examinations:** Three examinations during the quarter will be biased towards the most recently studied topics but also may test any subject previously covered. The scores will be averaged. There will be no make-up Exams. If there is a serious emergency which results in missing an exam the student should notify the instructor as soon as possible. That is before the exam if possible and **NO LATER THAN** just before the start of the next class which the student attends.

**Contributions to grade.**

Average of three exams 40% Final Exam 35% Note Book 10% Homework 10% Average of quizzes 5%  
Missed quizzes will score zero. The two lowest **quiz** scores will be dropped the remainder will be scaled and averaged.  
If the overall computed averages using above weightings is XX% then

**XX% = 90% or higher = A**

**XX% = 80% BUT LESS THAN 90% = B**

**XX% = 65% BUT LESS THAN 80%. = C**

**XX% = 50% BUT LESS THAN 65% = D LESS THAN 50% = F**

**THERE WILL BE NO MAKEUP EXAMINATIONS OR QUIZZES.**

**Failure to take the Final Examination** will result in an **F** Plus and minus grades will **not** be given in this course.

**Final Examination in G5 at 4:00.-6:00 p.m. DECEMBER 8<sup>th</sup>.**

## **HOMEWORK and STUDY** (See also note book)

**A minimum of 10 hours per week of homework, preferably on a regular daily basis rather than in a couple of marathon sessions, is in most cases necessary in order to adequately learn the material and to get a good grade.**

Study the 'Master Schedule' provided. It lists every day in the quarter and numbers the weeks and active days of the quarter. There are three columns containing chapter numbers and sections.

The first of these three columns indicates the date on which the listed sections are expected to be explained in class. The second of these columns suggests what you primarily should be reading and studying on and after a given day. The third of these columns suggests what you should be reading ahead of and in preparation for a given day.

It is suggested that you at least very **briefly** read the sections to be taught on a given day **before** it is covered in class. Then after it has been covered in class, you should reread the section in more detail and study it. At this time you should work through the questions at the end of each section to convince yourself that you understand the subject matter.

It is essential that students do the homework described on the previous page and it essential that students go back from time to time and redo some this work. This repetition plays a very large part in helping to get things into memory. You will be expected to remember much of what you have studied PERMANENTLY and not just for the next quiz or test. Homework should also include reading the listed text and other texts and writing up the notebook.

Be honest with yourself in your assessment of yourself as you work through the course work.

Try to develop the ability to accurately assess whether or not you have truly learned something. A lot of problems arise from students believing that they have learned and understood something when they really have not.

If, when reading, rereading, or hearing someone say something, you think to yourself (or say) "I knew that" or "I know that" then you most probably do **not** "know" it. You probably only recognized it.

Learn to distinguish between **knowing** and **recognizing**. A good test is to ask the question "Could I clearly describe and explain it to someone else?" Remember "If you cannot explain it you don't understand it"

**Students are encouraged to meet and study in small groups. However the majority of homework, and the final presentations of any work to be handed in should be done individually.**

**DO NOT GET BEHIND.** Do not procrastinate and tell yourself that you will make up tomorrow (or next week) what should be done today (or this week).

MATHEMATICS IS A CUMULATIVE SUBJECT. IF YOU DO NOT LEARN WHAT YOU SHOULD THIS WEEK, YOU WILL NOT HAVE THE TOOLS TO UNDERSTAND WHAT IS TO BE TAUGHT NEXT WEEK. You will get hopelessly out of your depth **very quickly** and will not be able to catch up.

**The above comments are intended to be helpful advice. They are not necessarily the only, or even a set of sufficient, ways to be successful. Each individual is different. In the writer's opinion, however, they do highlight some of the major (rarely admitted) reasons why some students do not succeed as well as they would like.**

## NOTE BOOK

These are requirements to be followed in constructing the note book. Failure to follow most of these instructions (in a timely manner as appropriate) will result in some loss of relevant credit.

The note book should be bound with a **fixed** number of pages. It should **not** be loose leafed so that pages cannot be added to it and also pages should not be torn out or otherwise removed. **Spiral backed books are NOT considered bound** in this context. The frequently seen “Composition Note Books” are an example of what is acceptable

**Put your name and ID on or just inside the book.**

**BEFORE starting to use the note book the pages should be numbered IN INK.** Start with the first right hand page and label it 1 in the top right hand top corner and continue to number all the right hand pages 3, 5, 7 etc. in the their right hand top corners. Numbering of the **even** pages is optional.

**Leave pages 1 and 2 blank to start with.** They may be used later for an index or other similar purposes. You may leave more than two pages blank if you think you may have use for them later.

**At the top of the first page used for notes write CLASS NOTES.** The name of the course and/or similar identification may be added if desired. Also write in INK the date of the first notes written.

**Start a new page each day you write notes.** Start at the top of the next page and write the **date** there IN INK.

THERE ARE SIX SIMPLE AN EASILY FOLLOWED IN STRUCTIONS ABOVE. Experience shows that almost all students fail to follow at least some of these instructions. In order to succeed in life we ALL MUST learn to follow instructions. Failure to do so there therefore will be penalized by serious loss of credit.

## WRITING THE NOTES

It is suggested that you take notes in rough on scratch paper etc. in class and then review and write them up into your note book neatly as part of your home studying as soon as possible and while your memory is fresh.

Notes should include headings and names of section of subject matter, important results which you need to commit to memory, important derivations and examples, brief comments to help your understanding and memory and anything else you wish to add to make the notes useful to you. It is a good idea to develop a format to guide each day's notes

The notes should be spaced well enough to make them easy to read but not too much so that they consist of lots of empty space. They should read as a whole and at the end constitute a good summary of the whole class. They are for your advantage for you to use as reference and for review during this course and to be kept for use later. As you are writing them you should ask yourself “Do they fulfill these objectives?”

## EVALUATION

Note books should be set up during the first week of class and will be inspected at the beginning of the second week by which time they should be established and in operation.

These note books are intended to be kept up to date in real time. The instructor reserves the right to ask to see them at any time and some credit will be lost if they not reasonably up to date.

The note books will be considered as part of the credit contributing to the final grade as described in this “GREEN SHEET” You may use a second book if required or needed. If so it should be set up just like the first one and start numbering where the first one finished.

## HOMEWORK

In addition to the Note book you should set up an additional book for homework.. They will be looked at for effort, diligence and quality of the work but not necessarily for the correctness of any problems.

Evidence of genuine work and study will be looked for and a good try will earn the credit even if it does not always turn out to be the best correct result.

**These books should be set up in the same way as the note book .** In addition there should be a margin on each page in which problems are identified by text book page, chapter and number Do not tear pages out or obliterate anything you think may be incorrect, Just line it out neatly so that it is still readable. Work done is still effort expended even if it did not seem to get the right results.

Each days home work should start on a new page and should be dated similarly to the notes.  
Suggestions for homework will be made in class.

A table is supplied by attachment to an Email a copy of which should be attached to (or redrawn if you prefer) the first page of both the note book and the homework book.

**THESE TABLES MUST BE UP TO DATE WHEN YOU COME TO CLASS EACH DAY AND MAY BE INSPECTED AT ANY TIME AND THIS WILL BE AN IMPORTANT PART OF THEIR GRADING. IT MAY BE THAT THE HOME WORK OR NOTES MAY BE A LITTLE OUT OF PHASE BUT THE RECORD OF WHAT IS DONE AS SHOWN IN THESE TABLES MUST BE ALWAYS UP TO DATE**

### **Student Learning Outcome Statements (SLO)**

**Student Learning Outcome:** Analyze and synthesize concepts of limits, differentiation from a graphical, numerical, analytical and verbal approach, using correct notation and mathematical precision.

**Student Learning Outcome** Evaluate the behavior of graphs in the context of limits continuity differentiability.

**Student Learning Outcome:** Recognize, diagnose and decide on the appropriate method for solving applied real world problems in optimization related rates and numerical approximation..

<b>SCHEDULE FOR</b>	<b>MATH MATHD001A</b>				<b>F. JONES</b>		
<u>MASTER SCHEDULE</u>					<b>Sep-2015</b>	<b>1st, Day</b>	<b>9/22/2015</b>
		DYS BTW	CLS/WK				
<u>NOTE. ALL LAST DAYS ARE FRIDAY FOLLOWING THE DATE ENTERED</u>		2	2				
					<b>SECTIONS TO BE COVERED IN CLASS</b>	<b>STUDY AFTER CLASS AND CONTINUE TO STUDY</b>	<b>PREREAD BEFORE NEXT CLASS</b>
<b>BEGIN CLASSES</b>	DAY	DATE	WK #				
	Tue	22-Sep	1	1	2.1, 2.2	2.1, 2.2	2.3 ,2.4
	Thu	24-Sep	1	2	2.3 ,2.4	2.3 ,2.4	2.5, 2.6
	Tue	29-Sep	2	3	2.5, 2.6	2.5, 2.6	2.7, 2.8
<b>LAST DAY FOR REFUND</b>	Thu	1-Oct	2	4	2.7, 2.8	2.7, 2.8	REVIEW
<b>LAST DAY TO DROP NG</b>	Tue	6-Oct	3	5	REVIEW	REVIEW	REVIEW
	<b>EXAM 1</b>	Thu	8-Oct	3	6	EXAM 1 + 3.1	REVIEW + 3.2
		Tue	13-Oct	4	7	REVIEW + 3.2	3.3, 3.4
		Thu	15-Oct	4	8	3.3, 3.4	3.5, 3.6
		Tue	20-Oct	5	9	3.5, 3.6	REVIEW
<b>LAST DAY FOR P/NP</b>	Thu	22-Oct	5	10	REVIEW	REVIEW	3.9, 3.10
		Tue	27-Oct	6	11	3.9, 3.10	REVIEW +3.11
		Thu	29-Oct	6	12	REVIEW +3.11	REVIEW +3.11
	<b>EXAM 2</b>	Tue	3-Nov	7	13	EXAM 2 + 4.1	4.2, 4.3
		Thu	5-Nov	7	14	4.2, 4.3	REVIEW 4.4
		Tue	10-Nov	8	15	REVIEW 4.4	4.5, 4.7
<b>LAST DAY FOR "W"</b>	Thu	12-Nov	8	16	4.5, 4.7	4.5, 4.7	4.8, 4.9
		Tue	17-Nov	9	17	4.8, 4.9	10.1, 10.2pt
		Thu	19-Nov	9	18	10.1, 10.2pt	EXAM 3
	<b>EXAM 3</b>	Tue	24-Nov	10	19	EXAM 3	
<b>THANKSGIVING</b>		Thu	26-Nov	10	20		REVIEW
		Tue	1-Dec	11	21	REVIEW	REVIEW
		Thu	3-Dec	11	22	REVIEW	REVIEW
<b>FINALS 4:00- 6: p.m.</b>		Tue	8-Dec	12	23	FINAL	FINAL