MATH 31.Q15 & Math 231.Q15 – FALL 2021 PRE-CALCULUS I [HYBRID CLASS] T Th 1:30 PM to 3:45 PM

Instructor: Ms. S. Arabhi (pronounced AA-rub-hee)

<u>e-mail</u>: arabhisundararajan@fhda.edu / email me from canvas

Office Hours: Tuesday, Thursday: 1:00 PM to 1:30 PM {right before class [use class zoom link]};

Wednesday: 11 AM to 12 PM [Email me to get a zoom link]

Canvas: (De Anza's LMS – Learning Management System)

Please go to Canvas (through My Portal) for HW assignments, recordings, announcements, weekly proceedings, hand outs etc. Everyone MUST download the Canvas App on their smart phones.

Zoom: In Canvas, use the "zoom" button on the left column to find links and come to our virtual class meetings every T, Th from 1:30 PM to 3:45 PM. Use the same zoom link to attend office hours right before class. Use your official name/preferred name to be on zoom and keep your videos on.

Math 31 Co-requisite Class:

You are registered for Math 231, (a 2.5 credit co-requisite algebra support class), with Math 31. I am not going to teach Math 231 as a separate class, which means our online meetings will be lectures and Algebra reviews intertwined on Tuesdays, and Thursdays. Since this is a hybrid course, you are required to watch recorded videos for one to two sections **every week** and learn the material on your own.

Prerequisite: Math 114: Intermediate Algebra with a grade of C or better

Required material:

- 1) PRE-CALCULUS with Limits, (5th Edition) By Ron Larson
- 2) WebAssign online homework (register through canvas link)
- 3) Scientific Calculator (graphing calculators are not allowed)
- 4) Graph paper, notebook, ruler (you need to buy graph paper/ print out for free)
- 5) Laptop/ tablet and Mobile phone WITH CAMERA
- 6) Camera: All exams and quizzes will be during class time, on zoom, with cameras on (mandatory), so make sure you have a working camera attached to your laptop/tablet. If you do not have a built in camera in your device, please arrange for one asap.
- 7) Download Canvas App on cell phone.
- 8) Download any free scanner App (notes or scanbot or GeniusScan) on your cell phone to convert photos of your written work to pdf. [practice how to do this]

PRECALC LIMITS Se Ron Larson

HOW TO BUY E-BOOK & ACCESS ONLINE HW

- Go to WEBASSIGN HW modules in canvas modules to buy the e-book and access WebAssign.
 WebAssign HW will be accessed through Canvas modules ONLY. OR
- CLICK HERE to learn how to register for WebAssign.

If you have any trouble registration with WebAssign, use this zoom link to meet with a representative: https://cengage.zoom.us/j/92441139219 every weekday from 9/20 - 10/15 between 12pm and 2pm PST.

Course Objectives: (This is not an exhaustive list.)

(Chapters 1, 2, 3, 7, 9, 10 from the text book; parts of Appendix A.1 to A.6 as needed)

Functions and Graphs, Polynomial and Rational Functions, Exponential and Logarithmic Functions, Sequences and Series, Conic Sections.

Weekly Quizzes: (on zoom with videos on)

There will be a quiz (canvas/written) worth 5 points almost every week on Tuesdays (refer to calendar) at the end of class (~15 minutes) related to the material taught the previous week. Do your reading and homework everyday, to fair well in these quizzes. Don't miss any of these since there will be **NO MAKE-UP** quizzes. I will drop 3 lowest quiz grades at the end of the quarter, so if you are absent during a quiz, the absent quiz could be your dropped quiz.

<u>Check-in Quizzes: (2 points each; due Tuesday 10 PM):</u> These are short, 5 minute, quick quizzes – take them after you watch videos, so you can check to see whether you understood the particular section. It will also be an incentive to study the weekend videos on time. Three lowest check-ins will be dropped.

Homework: [ALL HWs will be due on Tuesday at 10 PM]

I. <u>WebAssign problems</u> and Reading assignments: (2 points each section) will be assigned in every class for every section and due on Tuesday at 10 PM. It is your responsibility to solve the problems on WebAssign and keep a written record. We will discuss solutions to some problems, but not all. WebAssign HW will be accessed through Canvas module. Three lowest WA HWs will be dropped.

Online Homework will be due every Tuesday at 10 PM.

- II. <u>Watch Videos: (2 point check ins):</u> Recorded sections will be posted for you to watch every week and you may see these after the Thursday class (weekend). You will take a short 5 minute check-in quiz after you see the weekend videos, which is due by Tuesday 10 PM. It is your job to see these videos at home and come prepared to the class next day. Weekend video check-ins are due on Tuesday 10 PM.
- III. Weekly Written HW: (5 points each) You will be assigned a set of problems every week on all sections covered that week. You have to solve these questions on paper neatly and upload it on canvas. You may learn all the material through out the week and then work on the HW, or you may keep a written record of the solution as you learn each section. Just answers without supporting work will earn 0 points. You have to show graphs on graph paper. Written HWs will be due on Tuesday, 10 PM.

Exams: These will be given on canvas while you are with your videos on on zoom.

Exams are primarily based on homework, problems from assessments, and solved problems in the textbook. So the best way to prepare for exams is to sincerely do all the homework, read the book, learn from your mistakes in the quizzes, and clear all your doubts as soon as you can. There will be four written exams (60 minutes) and (an additional) final exam (2 hours). THERE ARE NO MAKE-UPS for EXAMS. However, I will drop lowest of the four exams. It is your responsibility to let me know as soon as possible (within 24 hours) if you are going to miss an exam and provide "valid" reason and documentation for the absence.

FINAL EXAM is scheduled for TUESDAY, DECEMBER 7th from 1:45 PM to 3:45 PM. <u>Final exam is mandatory and will not be one of the dropped exams</u>, and if you cannot take the final exam at the scheduled time and date, please do not enroll in this class. The final exam will be CUMULATIVE, i.e it will contain everything covered during the course.

Tutorial, Class Participation & Attendance:

Attendance is strongly emphasized and class participation (2 points for every T, Th tutorial) is actually part of your course grade. Study every day and be ready with any questions you have. The first hour of both zoom lectures will be tutorials where you will solve a set of questions on WebAssign – you may ask questions while solving the tutorial questions.

My classes always begin promptly, so I ask that you be on time. Students who attend regularly and show up on time are almost always successful. I may drop a student from the class if they are absent 4 or more times, or miss a major exam. (But do not assume if you stop coming to class, you will automatically be dropped. You are responsible for dropping yourself out of this class). I will also drop any student who, in my judgment, is habitually disrupting the class.

Please make sure your mics are muted except when you need to ask / answer a question. I prefer you have your videos on at all times.

* IF YOU MISS ANY CLASS, LOOK FOR MISSED WORK & RECORDING ON CANVAS

Grading:

Tutorial (Class Participation) 2 pts each	24 Points	T, Th 1:30 PM to 2:30 PM
Check in assessments (2 points each)	24 Points	Weekends
Quizzes (5 points each)	30 Points	Tuesday 3:30 PM
Online WA Homework (2 points per section)	60 Points	Due every Tuesday before 10 PM
Written HW (5 points each)	50 Points	Due every Tuesday before 10 PM
Exam 1	50 Points	THURSDAY, SEPTEMBER30 TH
Exam 2	50 Points	THURSDAY, OCTOBER 14 TH
Exam 3	50 Points	TUESDAY, NOVEMBER 2 ND
Exam 4	50 points	THURSDAY, NOVEMBER 18 TH
Final Exam	100 Points	TUESDAY, DECEMBER 7 TH
		1:45 AM to 3:45 AM

Total Points: ~ 388

<u>Letter Grade</u>: I do not curve. Course grades will be determined on a standard scale:

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\geq 97 \% \rightarrow A+ 94 - 96.9\% \rightarrow A 90 - 93.9\% \rightarrow A-87 - 89.9\% \rightarrow B+ 84 - 86.9\% \rightarrow B 80 - 83.9\% \rightarrow B-77 - 79.9\% \rightarrow C+ 70 - 76.9\% \rightarrow C 67 - 69.9\% \rightarrow D+ 64 - 66.9\% \rightarrow D 60 - 63.9\% \rightarrow D-59.9\% \rightarrow F
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There will be no retakes/make-ups offered for quizzes, exams, tutorials (or any assessment), if you miss them due to any reason. (Three quizzes, check-ins, WebAssign HWs and one exam will be dropped at the end of the quarter).

ALL class Assessments:

- Will be on Canvas
- Will be on zoom with <u>videos on,</u> therefore make sure you have a WORKING camera from day one.
- When you are done with the assessment, you will first submit the test, then log out of canvas and LASTLY switch off the camera and log out of zoom (if the class is over).
- You may not have any ear phones/ head gear during assessments. You may not talk to anyone.
- You have to be clearly visible on camera, so please don't wear hats and keep your room well lighted.

Additional NOTES:

- Last day to <u>drop class</u> with a full refund and with no record of grade is **Sunday**, **October 3rd**.
- The deadline for dropping with a "W" is Friday, Nov 12th
 In every case, a student is responsible for dropping him/herself. You should not assume that you are automatically dropped from the class for non-attendance. Students on the final grade roster who have not dropped, and who do not show up for the final exam, automatically receive an F in the course.
- <u>Last day to add</u> is Saturday, October 2nd.
- <u>College Policy:</u> Students cannot take the same class more than three times for a grade, including W. Late adds and drops will not be processed.

HONOR CODE (No cheating/ dishonesty)

The purpose of the Honor System is to allow freedom in the completion of all academic work, and to ensure the integrity of the work. When students accept this freedom and trust, they are placed on their honor to neither cheat on any homework assignment nor violate the **trust placed in them** in any way during quizzes and exams.

Students demonstrate their responsibilities to the teacher and their fellow students under the Honor System when they can pledge, in good conscience, that their **work is their own.**

Cheating on any exam / quiz / HW assignment may result in an F grade for the course and is absolutely prohibited in my class.

Copying HW from the web, having other's do your work, using materials (for example, graphing calculator) not allowed during assessments, helping others during an exam, chatting with anyone except me during an exam, or using an external source of information (text book, web, person Apps) for which you were not explicitly given permission, will result in an instructor drop or an F grade for the course.

Cheating incidents will also be reported to the Department Chair, which will have additional consequences.

Online class room (zoom) etiquette

- 1. Please keep your mics muted when you enter zoom / while listening.
- 2. Use your official name/ preferred name when on zoom.
- 3. If internet is spotty, consider using your phone for audio and laptop/ ipad for video.
- 4. Use proper language while talking and chatting. Be patient, sensitive and receptive to people with different accents.
- 5. Keep other distracting devices away from reach so that you can focus on your course work.
- 6. It is my advice you are seated upright in a comfortable posture on a chair while your computer is on a table. Lying down on a bed or slouched on a couch takes away the seriousness of education.
- 7. It will be greatly appreciated if you are dressed decently and are presentable. :-)

Additional Assistance:

The key to being able to take advantage of any of these services is to be quick to recognize your need for assistance. It is always better to seek help sooner rather than later.

- 1) The Math, Science & Technology Resource Center (MSTRC): Free online assistance is available on zoom through the <u>Student success Center</u>, along with Academic skills Workshops. You may also use <u>Nettutor</u> on Canvas to access De Anza tutoring. WebAssign and Canvas have their own online help as well.
- 2) Your classmates: Use the "DISCUSSIONS" feature in Canvas. Many students find informal study partnerships and groups to be most helpful in learning math. I recommend that you study virtually with others in this class and participate in canvas discussion boards.
- 3) TALK TO ME DURING VIRTUAL OFFICE HOURS: Please feel free to ask me questions during class time and/or email me for one on one meetings on "zoom" on canvas. I'll give you as much direction and assistance as I can, and refer you to additional resources as needed. **Do not wait until you are drowning to get help.**
- **4)** Any student with a documentable disability who needs academic accommodations should contact: Disability Support Services (DSS): www.deanza.edu/dsps/

One purpose of this course syllabus is to provide you with the guiding principles upon which the class runs, and another is to make sure that you have at your finger tips answers to any questions which might arise.

This "Syllabus" is readily available in Canvas, so you can easily refer to it.

Make sure you read the syllabus in its entirety before you ask me any questions about the course.

USEFUL TIPS:

- 1. Education is a gift, an opportunity, not a guarantee. When you feel like giving up, carefully organize your rationalizations and excuses on a piece of paper. When your list is complete, burn the paper! Then **keep working** on ...
- 2. Do not waste time cheating from books/ asking friends for answers during assessments. The reason is three folds:
 - (a) Most importantly, you will be doing disservice to yourself by being ill prepared for this course and all subsequent math courses.
 - (b) The assessments are timed; you will not have time to finish the test if you spend time cheating -I will not give extra time to finish.
 - (c) Cheating is against the HONOR CODE, which you are pledging to abide by.
- **3.** Minimize your dependence on published answers at the back of the book/ internet. Learn to verify your answers by checking your solutions or by working the problem two different ways (perhaps numerically and algebraically). You will NOT have an answer key during examinations, nor at work, so **develop self-reliance**.
- **4.** Students often fall into the trap of thinking that if they have done all the homework, often by looking at the answers and working backwards, or by plugging in numbers in similar problems, they have mastered the material. With luck, this level of effort alone might earn a 'C' grade. Serious students do enough additional homework problems to evoke a feeling of **smug confidence**.
- **5.** Be sure to quickly scan-read each section taught the previous day before coming to class. You can then spend far less time taking notes, concentrate more on what is said, and ask lots of questions.
- **6.** You will never be penalized for being late. But please be respectful and mindful to your fellow classmates and teacher in case you do get late, and quietly log onto zoom with mics muted.

TENTATIVE PACING CALENDAR Thursday Weekend Week		P	RECALCULUS [MAT	H 31], Fall 2021		
SEPTEMBER Day of class First 22 Office hours 11 AM to 12 noon 23 A-2 1.1 & 1.2 1 28 1.3 29 Office hours 11 AM to 12 noon EXAM 1 1.5 2 OCTOBER 5 1.6 6 Office hours 11 AM to 12 noon 12 AM to 12 noon 14 AM to 12 noon 15 AM to 12 noon 16 AM 16 AM 17 AM 17 AM 18 AM 1		T	TENTATIVE PACIN	G CALENDAR	I	
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Friday, Nov 12th : Last day to drop w/ "W"	-					
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Friday, Dec 31st: Deadline to request pass/no pass	-					

Student Learning Outcome(s):

- * Investigate, evaluate, and differentiate between algebraic and transcendental functions in their graphic, formulaic, and tabular representations.
- * Synthesize, model, and communicate real-life applications and phenomena using algebraic and transcendental functions.