MATH 41.Q06 & Math 231.Q06 – SPRING 2020
PRE-CALCULUS I [ONLINE CLASS]
TWTh 10:30 AM to 12:45 PM

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

e-mail: arabhisundararajan@fhda.edu

Office Hours: Tuesday & Thursday: 9:30 AM to 10:30 AM via email / phone [zoom meeting upon request]

Canvas Website: Please refer to the Canvas webpage (through My Portal) for HW assignments, recordings, announcements, weekly proceedings, hand outs etc. Please download the Canvas App on your smart phones.

Zoom: In Canvas, use the "confer zoom" module to come to our virtual class meetings every T, W, Th.
Math 41 Co-requisite Class: You are registered for a 2.5 credit co-requisite with Math 41. 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, Wednesdays and Thursdays. Do not plan on skipping any part or day of the class.

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

Required material:

1) PRE-CALCULUS with Limits, (3rd Edition) By Ron Larson [comes free with WebAssign]
2) Laptop/ tablet and Mobile phone; Scientific Calculator (**graphing calculators are not allowed**)
3) WebAssign is REQUIRED in my class for homeworks, so please create an account on cengage.
4) Download Canvas App on cell phone.
5) Download any free scanner App (note or scanbot or GeniusScan) on your cell phone to convert photos of your written work to pdf.

Course Objectives: (This is not an exhaustive list.)
(Chapters 1, 2, 3, 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.

Homework: (3 parts)

- **(1) WebAssign problems and Reading assignments** will be assigned in every class for every section. It is your responsibility to solve the problems and keep a written record. We will discuss solutions to some problems, but not all. (2 points each)
- (2) You will be assigned **weekly written homework assignment** to be turned every Tuesday by uploading your written work on canvas as a pdf. NOTE that in the written homework, answers must have supporting work to receive any credit! (Answers alone will receive a 0 score).(2 points each)
- (3) In addition, you will turn in a **"Review terms and concepts"** assignment on Tuesdays. (1 point each)
- Online AND Written Homework will be due every Tuesday at 1:30 PM. I will announce every Thursday the written problem and the HW sections to be turned in on Tuesday.
- WebAssign Homework and textbook can be accessed directly from the WebAssign tab in Canvas.

Quizzes:

There will be two quizzes (canvas/webassign/written) almost every week (refer to calendar) at the end of class (15 minutes) related to the material taught the previous classes. 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 4 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.

Special group Quizzes (Tutorial): (10 points each)

This is a review for exams. A set of questions will be given (canvas/webassign/written), and you will be allowed to work in groups. You have to turn in the solution at the end of the class. These quizzes are special because I will assist you in solving the problems. These quizzes will assess your understanding of the material taught in the class, as well as encourage you to work in groups. These will also help you review for the exam next day.

Don't miss special quizzes, since there will be no make-ups.

Exams:

Exams are primarily based on homework, problems from quizzes, 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 Thursday, June 25th from 9:15 AM to 11:15 AM. **Final exam is mandatory and will not be one of the dropped exams**, 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.

Class Participation & Attendance:

Attendance is strongly emphasized and class participation is actually part of your course grade. **There will be pop/surprise quizzes at any time/any day**. Study everyday and be ready with any questions you have. I always encourage class discussions. 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.

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

Grading:

Class Participation	15 Points	T, W, Th 10:30 AM to 12:45 PM
Quizzes (5 points each)	55 Points	See calendar (Tuesday & Thursday)
Online Homework (2 points per section)	~50 Points	Due every Tuesday before 1:30 PM
Written Homework (2 points)	20 points	Uploaded every Tuesday before 1:30 PM
Terms and concept check (2 points)	20 points	Uploaded every Tuesday before 1:30 PM
Special Quiz (10 points each)	50 Points	See calendar
Extra credit Pop quizzes	Up to 40 points	Any day, any time during class
Exam 1	50 Points	THURSDAY, APRIL 30th
Exam 2	50 Points	THURSDAY, MAY 14th
Exam 3	50 Points	THURSDAY, MAY 28th
Exam 4	50 points	THURSDAY, JUNE 11th
Final Exam	100 Points	THURSDAY, JUNE 25th 9:15 AM to 11:15 AM

Total Points: 460 to 500 (sliding scale)

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

≥ 97 % → A+	94 - 96.9% → A	90 - 93.9% → A-
87 - 89.9% → B+	84 - 86.9% → B	80 - 83.9% → B -
77 - 79.9% → C+	70 - 76.9% → C	
67 - 69.9% → D+	64 - 66.9% → D	60 - 63.9% → D –
≤ 59.9% → F		

There will be no retakes/make-ups of quizzes, Exams, pop quizzes (or any assessment) if you miss them due to any reason. (4 quizzes and one exam will be dropped).

Additional NOTES:

- Last day to **drop class** with a full refund and with no record of grade is **Sunday, April 26th.**

- The deadline for dropping with a "W" **is Friday, June 5th.** 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.

- **Last day to add** is Saturday, April 25th

- **Last day to request pass or no pass:** Friday, May 8th

- **College Policy:** 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 other's during an exam, chatting with anyone except me during an exam, or using an external source of information (text book, web) 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.

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 Student Success Center, along with Academic skills Workshops. More details can be found at http://deanza.edu/studentsuccess/servicesupdate.html WebAssign and Canvas have their own online help as well.

2) Your classmates: 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" or "conference" 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/

5) Online class room (zoom) etiquette

Please keep your mics muted when you enter / while listening. If internet is spotty, consider switching off your video. Use proper language while talking and chatting. Keep other distracting devices away from reach so that you can focus on your course work. It will be greatly appreciated if you are dressed decently and are presentable. :-)

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. 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**.

3. 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.**

4. 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.

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.

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.