

## MATH 43-63, Precalculus III, Winter 2020

<b>Instructor</b> Renuka Kapur	<b>location</b> S-46, 6:30 pm	<b>Email</b> <a href="mailto:kapurrenuka@fhda.edu">kapurrenuka@fhda.edu</a>	<b>Office Hours</b> Tues 1:30 to 2:20 pm; S-43
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**READ THROUGH THE ENTIRE GREENSHEET SO THAT YOU ARE FAMILIAR WITH THE CLASS.**

This is a demanding, but rewarding class. If you cannot commit to a minimum of 10 hours per week of study and group work, then you should take this class in a quarter when you have time to learn. This is also a collaborative class. You will be expected to work with your classmates both inside and outside of class (no exceptions).

**Prerequisite:** Math 42 (with a grade of C or better), or equivalent

**Book:** ~~XXXXXXXXXX~~ Precalculus with Limits, 3<sup>rd</sup> Ed., by Larson

**Materials:** TI-83 PLUS or TI-84 graphing calculator preferred

**Contact me:** Email or Text. Please download the Remind App on your mobile. I will give you the class code.

**Quizzes:** Quizzes are closed book and with one page of notes allowed. **No make-ups are given. You are going to have to turn in your quiz paper, if you leave the room for any reason. You will not be allowed work any further on this quiz paper. Seating arrangements on day of exam may be changed.**

**Homework** Three Homework sets will be collected, each on the examination days (25 points per collection). No late homework will be accepted. Devote a minimum of 2 hours to homework for each class hour (10 hours per week).

**Exams:** 3 exams will be given. Bring a scantron (882-E). Exams are closed book. Students may bring to the exam one 8 ½” x 11” page of notes, a calculator, and, if English is a second language, an English translation dictionary. **No makeup exam is given. . You are going to have to turn in your exam paper, if you leave the room for any reason. You will not be allowed work any further on this exam paper. Seating arrangements on day of exam may be changed**

**Final Exam:** A two-hour comprehensive exam will be given. If you miss the exam without contacting me, you will receive an F for the course. Bring scantron (882-E) . Students may bring 3 pages of notes to the final. Check Schedule of Classes for exam date. Seating arrangements on day of exam may be changed

**Attendance:** Tardies count as half an absence. If you arrive in class after the attendance has been taken, then you are considered tardy for the class. Also leaving class early counts as half an absence. If you accumulate the equivalent of 2 absences, whatever the reason , you may be dropped from the course. Please inform me by email if you are absent. However, it is your responsibility to drop the course. YOU MUST BE IN CLASS EVERY DAY THE CLASS MEETS THE FIRST TWO WEEKS OF CLASS OR YOU WILL BE DROPPED.

**Grade:**

Exams (3@ 100)	300 pts.
Quizzes (lowest 5@ 25)	125 pts .
Homework (10@10)	75 pts
Final Exam	100 pts

A+	$97.5\% < score \leq 100\%$	A	$92.5\% \leq score \leq 97.5\%$	A-	$90\% \leq score < 92.5\%$
B+	$87.5\% < score < 90\%$	B	$82.5\% \leq score \leq 87.5\%$	B-	$80\% \leq score < 82.5\%$
C+	$72.5\% < score < 80\%$	C	$65\% \leq score \leq 72.5\%$		
D+	$60\% < score < 65\%$	D	$55\% < score \leq 60\%$	D-	$50\% \leq score \leq 55\%$
F	$score < 50\%$				

Late papers after the official start time of class will not be accepted. **Take-home papers will not be graded unless they are STAPLED** (no doggy-ears or paper clips) before class. All papers turned in must be NEAT to earn full credit.

\*\*\*At the end of the quarter, if the final exam is the lowest exam, it will count as 1 exam. Therefore, the final exam and all other exams will count. If one of the 3 midterm exams is the lowest, then that midterm score will be replaced by the final score. Therefore, the final exam will count twice. In summary, you will have a total of 400 exam points. Your grade is based on points and not a “curve.”

**CHEATING WILL NOT BE TOLERATED.** If anyone is caught cheating, he or she will pay the consequences. That includes the possibility of being expelled from the college.

**CELL PHONES must be in silent mode during class.**

**Winter 2020 (Tentative Calendar)**

	Monday	Wednesday
Jan	7.1, 7.3, 6	7.3,7.5 8
Jan	7.5, 7.7, 13	8.1 Quiz 1 14
Jan	<b>Holiday</b> 20	8.2, 8.3 TH. Quiz 2 22
Jan	8.3, 8.4 27	Review <b>Exam 1</b> 29
Feb	8.5, 9.1 3	9.1, 9.2 TH. Quiz 3 5
Feb	9.3, 9.4 10	9.5 Quiz 4 12
Feb	<b>Holiday</b> 17	Review <b>Exam 2</b> 19
Feb	10.6, 10.7 24	10.7, 10.8 TH. Quiz 5 26
Mar	10.9, 11.1 2	11.1, 11.2 Quiz 6 4
Mar	11.2, 11.3 9	Review <b>Exam 3</b> 11
Mar	11.4, Hyperbolic Functions 16	Hyperbolic Functions Review 18
Mar	23	<b>FINAL EXAM</b> 6:15 pm 25

Homework Problems:

Sections	Problems
7.1	5, 7, 9,11,15,21,23,25,27,29, 31, 33, 35, 37, 41, 47, 49, 57, 59, 61, 69
7.3	7, 11, 15, 17, 19, 25, 27, 29, 37, 41, 45, 47, 49, 51, 53, 55, 59, 61, 63, 65, 67
7.5	5, 7, 9,11,13,15,19, 21, 29, 31, 33, 35, 47, 49, 51, 57, 61, 65, 67
8.1	9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 65, 67, 69, 71, 73, 85, 87, 93, 95, 99, 102(set up only), 103(set up only)
8.2	7,8,11,15,19,21,23,25,31,33,35, 39, 41, 43, 45, 47, 51, 55, 57, 63, 65, 67, 71
8.3	5, 11, 15, 19, 25, 31, 33, 35, 43, 45, 55, 61
8.4	17, 19, 27, 35, 39, 49, 63, 71, 77, 99
9.1	7, 11, 17, 21, 25, 27, 31, 33-36, 37, 39, 43, 45, 47, 49, 51, 53, 55, 57, 59, 63, 65, 67, 69, 73, 75, 77, 79, 81, 83, 85, 89, 93, 95, 97
9.2	5,9,11,13,19,21,27,31,35,37,39,41,45,47, 51, 53, 57, 59, 61, 65-68, 69, 75, 77, 83, 84
9.3	5, 11, 15, 19, 23, 27, 29, 31, 41, 45, 47, 48, 49, 50, 55, 61, 63, 73, 77, 79, 81, 89
9.4	5,7,11,15,19,23,25,27,31,37, 41, 47, 51, 53, 55, 59, 61, 63, 65, 69
9.5	5, 11, 15, 17, 19, 29, 39, 41, 45, 47, 53, 57, 61, 67, 71, 73
10.6	5,7,9,11,13,15,25,29,49,51, 53, 54, 57, 58, 61, 63, 69, 73, 98
10.7	5, 7, 9, ..., 33 (odd ones); 43, 45, ..., 59 (odd ones); 71, 73, ..., 109(odd ones); 117, 119, ..., 125(odd ones)
10.8	7, 9, ..., 45(odd ones)
10.9	5, 9-14; 15, 17, 19, 21, 23, 25, 39, 41, 43, 45, 49, 53
11.1	9, 11, 13, 15, 19, 29, 33, 37, 39, 43, 47, 55, 57, 63, 65, 71, 73
11.2	7, 13, 17, 19, 23, 25, 31, 33, 35, 39, 41, 45, 47, 49, 53, 57, 61, 65
11.3	5,7,9,11,13,15,23,29,35,37,43,45,51,55,57
11.4	7,9,13,19,21,23,25,29,31,35,37,53,47,53,63

**Student Learning Outcome(s):**

\*Analyze, investigate, and evaluate linear systems, vectors, and matrices related to two or three dimensional geometric objects.

\*Graph and analyze regions/curves represented by inequalities or trigonometric, polar, and parametric equations, including conic sections.

\*Analyze, develop, and evaluate formulas for sequences and series; Justify those formulas by mathematical induction.