MATH 43 – 11 Precalculus III: Advanced Topics

MTWThF 12:30 PM - 01:20 PM, Room G5, CRN 30824

Instructor: Nahrin Rashid

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Office Hours: S33s Monday 6:20 – 8:00 PM & Wednesday 6:20 – 8:00 PM

Prerequisite: MATH 42 or equivalent (with a grade of C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

Course Description: Hyperbolic functions, parametric equations, systems of equations and inequalities, vectors, lines and planes, sequences and series, polar coordinates, mathematical induction, and the binomial theorem.

Textbook: Precalculus with Limits; 3rd edition, by Ron Larson. ISBN: 978-1133947202

Calculator: A basic scientific calculator is required for this class such as Texas Instruments TI30XIIS Scientific Calculator. Cell phone calculators are not allowed during quizzes or exams.

Software: All homework will be done online using WebAssign. You will need to register at www.webassign.net to use this internet-based software. You will need the class key given by me in order to self-register.

Tutoring Services: Do not wait to get extra help. Contact either instructor via email or in person. The De Anza campus has a tutorial center for math students where students can get "drop in" help. Students can also register to have a regular, assigned tutor for help throughout a quarter. The tutoring center is located in room S43.

Student Conduct: Students are expected to be honest and ethical at all times in the pursuit of academic goals. Do not cheat. If you have a question during a test, you are only allowed to talk to the instructor. Anyone caught cheating on an exam will receive an automatic 0 and be reported to the Dean of the PSME Division. You can be expelled from the class and possibly from De Anza College with a grade of F if you are caught cheating.

Classroom Behavior: Math requires singular focus. I will expect your full attention during lecture and class activities. Please show courtesy for me and your fellow classmates by turning off and putting away your cell phone during class time, especially during exams. Please do not take calls or text message during class. Do not talk while fellow classmates or I are talking. Students who engage in disruptive classroom behavior will be warned by the instructor. If the disruptive behavior continues, students may eventually be dropped from the course.

Disability-Related Accommodation: If you feel that you may need an accommodation based on the impact of a disability, you should contact me privately to discuss your specific needs. Also, please contact Disability Support Services (864-8753) or Educational Diagnostic Center (864-8839) for information or questions about eligibility, services and accommodations for physical (DSS), psychological (DSS) or learning (EDC) disabilities.

Time Management: You should expect to spend at least 2 hours outside of the classroom for every 1-hour inside the classroom. This time outside of the classroom may include homework, reviewing notes, studying, and attending office hours. If you want to be successful in this class you will need to put time and effort into it.

Attendance: Students are expected to attend every class meeting. Make sure you sign the attendance roster at each class meeting. If you miss a day, it is solely your responsibility to seek out another student or myself to find out what you missed. You cannot expect to do well in the class if you fail to attend lectures.

Homework: Homework will be assigned every class meeting online and will have a due date. All homework must be submitted by 11:59PM on the due date. You must set up an account by Monday, January 13, 2020 or you will be dropped from the class**.** If you have a homework problem you were not able to complete, you have the next class session to ask. At the end of the quarter your lowest homework score will be dropped. Homework will count for 15% of your term grade. Please do not procrastinate!

Quizzes: There will be a quiz every week. Each quiz will be assigned online or in-class intermittently throughout the term to test your skills on the concepts we are covering in class and online. **NO** make-up quiz will be given. To compensate for this, I will drop your lowest quiz score. These quizzes will count for 10% of your grade.

Midterms: I will give four in class exams during the quarter. No notes will be allowed on any exams. These exams will be completed in class and will contain the materials covered in the lectures, online, and in the book. If you are unable to take an exam for any reason, **a makeup exam will not be given**. To compensate for this, I will drop your lowest exam score. These exams will count for 50% of your term grade.

Final Examination: If you do not take the final exam, you **WILL NOT** receive a passing grade. There will be a comprehensive final examination on **Wednesday, March 25 from 11:30 AM - 1:30 PM.** This test will count for 25% of your term grade.

Grade Breakdown:

A+: 97 - 100%	**B+: 87 - 88%**	**C+: 77 - 78%**	**D: 62 - 66%**
A: 92 - 96%	**B: 82 - 86%**	**C: 69 - 76%**	**D-: 60 - 61%**
A-: 89 - 91%	**B-: 79 - 81%**	**D+: 67 - 68%**	**F: < 60%**

Important Dates:

- The last day to add classes is Saturday, January 18.
- The last day to drop for a full refund and no record of "W" is Sunday, January 19.
- The last day to request pass/no pass grade is Friday, January 31.
  The last day to drop with a "W" is Friday, February 28

Tentative Schedule for Math 43, Winter 2020

Week	Monday	Tuesday	Wednesday	Thursday	Friday
1	January 6 Syllabus	January 7 Section 7.1	January 8 Section 7.1	January 9 Section 7.3	January 10 Section 7.3
2	January 13 Section 7.5	January 14 Section 7.5	January 15 Section 7.5	January 16 Section 8.1	January 17 Section 8.1
3	January 20 **Martin Luther King Jr. Holiday**	January 21 Section 8.2	January 22 Section 8.2	January 23 Section 8.3	January 24 **Exam 1 (7.1, 7.3, 7.5, 8.1)**
4	January 27 Section 8.3	January 28 Section 8.4	January 29 Section 8.4	January 30 Section 9.1	January 31 Section 9.1
5	February 3 Section 9.1	February 4 Section 9.2	February 5 Section 9.2	February 6 Section 9.2	February 7 Section 9.3
6	February 10 Section 9.3	February 11 **Exam 2 (8.2, 8.3, 8.4, 9.1)**	February 12 Section 9.4	February 13 Section 9.4	February 14 **Presidents' Holiday**
7	February 17 **Presidents' Holiday**	February 18 Section 9.4	February 19 Section 9.4	February 20 Section 9.5	February 21 Section 9.5
8	February 24 Section 10.6	February 25 Section 10.6	February 26 Section 10.9	February 27 Section 10.9	February 28 **Exam 3 (9.2, 9.3, 9.4, 9.5)**
9	March 2 Section 11.1	March 3 Section 11.1	March 4 Section 11.2	March 5 Section 11.2	March 6 Section 11.2
10	March 9 Section 11.3	March 10 Section 11.3	March 11 Section 11.3	March 12 Section 11.4	March 13 Section 11.4
11	March 16 **Exam 4 (10.6, 10.9, 11.1, 11.2)**	March 17 Hyperbolic Functions	March 18 Hyperbolic Function	March 19 Hyperbolic Function	March 20 Final Review
12	March 23 No class	March 24 No class	March 25 **Final Exam 11:30 AM – 1:30 PM**	March 26 No class	March 27 No class

This syllabus is subject to change at the instructor's discretion.

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.