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| **Course** | Math 41.03 Pre–Calculus Alg Lvl I | | **Instructor** | Mr. Charles Klein | |
| **Days** | M – F | Fall 2016 | **Contact** | 408 864 8213 | |
| **Time** | 8:30 – 9:20 AM | Room E–36 | **Office Hours** | S-76g Mon–Thurs 9:30–10:20 AM | |

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**READ THROUGH THIS ENTIRE GREENSHEET, AND THE INFORMATION ON THE COURSE WEBPAGE, SO THAT YOU ARE FAMILIAR WITH THE CLASS AND ITS MANY DETAILS**

Text: PreCalculus with Limits –3rd Ed., Larson; A graphing calculator (TI 83/84/86 or equivalent) is required. Author's tutorial help is available at www.larsonprecalculus.com

Overview: "Theory of Functions": Topics include: Functions –linear, polynomial, rational, exponential, logarithmic– and their graphs; solving equations and applications associated with each of those functions.

**Student Learning Outcomes** (What math from this course you should be able to do at the end of the quarter)

1. Investigate, evaluate, and differentiate between algebraic and transcendental functions in their graphic, formulaic, and tabular representations.

2. Synthesize, model, and communicate real–life applications and phenomena using algebraic and transcendental functions.

Pre–requisite: Math 114 with a C or better

**The use of cell/portable phones, beepers, or pagers in class is considered impolite and disruptive, if not rude. Please turn them off before entering class. If your phone/beeper goes off during a mini-test/exam, your paper will be taken, and you will not be allowed to continue working on it. Your score will be based on the work done up to that point.**

**S. O. P. 's**: In addition to this course syllabus, the instructor's "**Home page"** and the "**General Information**" page of the instructor's **website:** www.deanza.edu/faculty/kleincharles/ **is also considered part of the course syllabus,** and hence you are also responsible for and bound by the information contained therein.

Attendance: Since mathematics is cumulative in nature, attendance at all classes is expected. Students should be aware of appropriate drop dates (Oct. 9 , Nov. 18 –See special notes on Dropping a Class in the Schedule of Classes or the General Information page of the instructor's website). *It is the student's complete responsibility to drop this class as I will not drop anyone from the class*.

Homework: Homework assignments represent the student's opportunity to learn what was taught, by practicing both mechanical skills and problem–solving techniques. The student is expected to do –and is responsible for– all assigned problems associated with the section(s) of the text covered each class meeting.

Mini–Test: Mini–Tests will be given intermittently throughout the quarter. Short (a day or so) notice will be given, and a missed Mini–Test (approx. 40 pts.) cannot be made up. Mini–Tests will be worth a total of approximately 160 points.

Exams: Each exam will be announced about a few days in advance. Students are required to take exams when scheduled, including the final. There are no makeup's of any kind; the final exam will count twice; one lowest exam score will be dropped. For example, if one of the midterm exams is the lowest, then the final score will replace that midterm score. (i.e., exam scores of 50 , 60 , and 70 , and a final exam score of 65 will give you exam points of 60 , 65 , 65, 70 - which means you just gained 15 free points (average goes up). However, with exam scores of 50 , 60 , and 70 , and a final exam score of 40 will give you scores of 40 , 50 , 60 , 70 , and thus your overall average will be pulled down.

- *If your lowest exam score is the result of cheating or cell phone mis-use, that score will not be dropped, but the next lowest will*.
- If you need to leave the room during a mini-test or exam, your paper is turned in and you are done.
- At the end of the minitest/exam, you will have **ten seconds** to turn in your paper. If it is turned in late, a late penalty of a minimum of 10 % off, up to no credit, will be assessed for any mini–test, exam or other assigned work that is turned in late. It is not fair for you to continue working while others are turning in their work.

All work on quizzes and exams must be neat, complete, and logically presented; where work is required, partial credit will be given provided the work justifies such credit: a correct answer by itself will not earn full credit (except on a multiple choice question).

Points will be assessed/deducted not only for the correctness of the mathematics, but also for the presentation of the math. Check the "General Information" page of the instructor's website for further information/details, etc. THE PRESENTATION OF YOUR MATH IS AS IMPORTANT AS THE ACCURACY OF YOUR MATH.

Extra Credit: There is typically an additional extra-credit problem/question on each exam and mini-test. "XC" problems are also offered "in addition to" rather than "in place of" regular class-work, and are provided at the instructor's discretion; these are generally due the next class. There is no makeup for any missed extra credit. Extra credit is not available to make up for poor quiz/test performance.

Some exams, including the final, in whole or in part, may be multiple choice. The day and time for the final is already set; consult the DAC schedule of classes. Do not ask to take the final early.

Cheating, which includes, but is not limited to: looking at another's paper, copying, passing notes or other information, etc., will not be tolerated. The first instance will result in a zero on a mini–test or exam, and the student referred to the Dean for academic discipline. It is possible that as a result of cheating, the student could receive a grade of F for the course.

Homework Problems:

Expect problems to be given each day. Remember, you should be prepared to spend 2–3 (maybe even more) hours per day (including weekends) for review, homework, and study (see General Information).

- **It is strongly suggested you get the names and email/phone numbers of *several* students in the class so that you may contact others for any missed assignments or XC, should you be absent.**

- **It is highly recommended that you form study groups with others in the class. Take the initiative to form that group: the best way to learn something is to try to explain it to someone else.**

- **Take advantage of the video tutorials that are accessible via the instructor's website. (see left-hand column on home page of website)**

The assigned problems merely touch on the skills you will need. It is suggested you do additional problems of each type to gain additional expertise. It is suggested that you also answer the "Exploration" Questions, which are usually "True-False" or "Think About It/Explain"

Assignment: Every Other Odd ( EOO ): This amounts to about one-fourth (usually 20–25 problems) of all problems in any given section; thus it is not really an excessive burden on time or effort: about 5 minutes per problem is approximately two hours.

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| Apndx | A1 | 1 – 121 Every Other Odd ( EOO ) |
| | A2 | 1 – 121 ( EOO ) |
| | A3 | 1 – 229 ( EOO ) ; 231–234 |
| | A4 | 1 – 101 ( EOO ) |
| | A5 | 1 – 161 ( EOO ) ; 166 |
| | A6 | 1 – 129 ( EOO ) |
| Ch. 1 | 1.1 | 1 – 73 ( EOO ) ; 75–78 |
| | 1.2 | 1 – 85 ( EOO ) ; 87 or 88 |
| | 1.3 | 1 – 133 ( EOO ) ; 144 , 145 |
| | 1.4 | 1 – 113 ( EOO ) ; 107 , 108 , 123–4 |
| | 1.5 | 1 – 117 ( EOO ) ; 136 |
| | 1.6 | 1 – 69 ( EOO ) |
| | 1.7 | 1 – 77 ( EOO ) ; 79 |
| | 1.8 | 1 – 73 ( EOO ) ; 74–76 ; 84 |
| | 1.9 | 1 – 101 ( EOO ) ; 116 |
| | 1.10 | 1 – 85 ( EOO ) ; 94 |
| Ch. 2 | 2.1 | 1 – 85 ( EOO ) |
| | 2.2 | 1 – 101 ( EOO ) |
| | 2.3 | 1 – 85 ( EOO ) |
| | 2.4 | 1 – 85 ( EOO ) |
| | 2.5 | 1 – 117 ( EOO ) ; 118 , 119 |
| | 2.6 | 1 – 81 ( EOO ) ; 83 , 90 |
| | 2.7 | 1 – 77 ( EOO ) ; 80 |
| Ch. 3 | 3.1 | 1 – 73 ( EOO ) ; 74–76 , 89 |
| | 3.2 | 1 – 97 ( EOO ) ; 108 |
| | 3.3 | 1 – 93 ( EOO ) |
| | 3.4 | 1 – 137 ( EOO ) ; 148 |
| | 3.5 | 1 – 77 ( EOO ) |

Exam Schedule:

| Exam # | Covering | On or about |
|---|---|---|
| 1 | Appendix A1 6 | Oct. 7 |
| 2 | Ch. 1 10 | Oct. 31 |
| 3 | Ch. 2 7 | Nov. 17 |
| 4 | Ch. 3 5 | Dec. 8 |
| Final | **Comprehensive** | **Check Finals Schedule** |

Grade: Your letter grade will be based upon the *percentage* of total points earned, as compared to the total points possible, according to the following:

| From | Points | Percentage Earned * | Grade |
|---|---|---|---|
| Mini–tests (approximately) | 160 | 88 – above | A |
| Exams | 400 | 78 – 87 | B |
| Final | 100 | 68 – 77 | C |
| | | 55 – 67 | D |
| Total Points Possible | 660 (approximately) | 54 or below | F |

* ( i.e., from all minitests & exams you have 469 out of 660 points —> 71 % = C )