



**MATH 41**

**PRECALCULUS I: THEORY OF FUNCTIONS**

**WINTER 2017**

**Math-D041 – 63**

**CRN: 30323**

**Instructor: Neelam R. Shukla**

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**Class Hours:** Tuesdays and Thursdays from 6: 30 p.m.-8: 45 p.m. in room G2.

**Office Hours:** Friday from 9:30A.M.-11:30 A.M. in S43.

**Textbook:** Pre-calculus with Limits, 5th Ed. by Larson. We will plan on covering Chapters 1 – 3 and 10.2 and 10.4 sections in the textbook.

### **Learning Outcomes**

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

**Course Description:** Functions-linear polynomial, rational, exponential, logarithmic, and the their graphs; solving equations and applications associated with each of those functions.

**Student Commitment:** • This is a demanding but rewarding class. This class expects students to attend all classes and have a minimum of 10 hours of study each week outside of class.

- Math 41 covers a lot of material and moves at a rapid pace. At De Anza College (and all colleges) each at least 2 hours of study outside of class are expected for each hour in class, for a total of 15 hours weekly.
- If you don't have time for studying outside of class or can't commit to attending each class, then you should plan to take this class in a quarter when you can commit the necessary time to succeed.
- This is also a collaborative class. You will be expected to work in cooperation with your classmates(No exceptions). You will be expected to discuss ideas, questions and strategies with your group. Share your thoughts as often one idea will spark another and so on. Working in groups does not mean that students sit together quietly working alone and not talking with each other!
- Although Elementary Algebra is a Mathematics course, English reading comprehension and English writing play a very important role in this course. Communication is critical in life, both giving and receiving information. Students will be asked to carefully explain their thinking and problem-solving strategies both verbally and in writing. Grading will assume college level standards - proper sentence structure, capitals and periods.

**There will be 4 Exams for 20% each, No Makeups (I will pick best three) for 60 min.**

**Final Exam –28-31 March for 30%**

**Quizzes** for 5% (I will pick score of best 2) for 20 min at the beginning of the class.

**Home Work** 5%

- **Grade Breakdown:** 90 – 100% = A-,A,.

80 – 89% = B-,B,B+.

70 – 79% = C-,C,C+.

60 – 69% = D.

below 60% = F.

**Free Tutoring:** The Math Tutoring Center in Room S4 offers free tutoring on Mondays, Thursdays from 9 : 00A.M.-5 : 30P.M. I strongly encourage you to utilize this resource. More information can be found here: <http://www.deanza.edu/studentuccess/mstrc/>

**Supplemental Resources:** I encourage you to poke around the library and web to see what other supplemental resources exist. One great resource is the following link:  
<http://tutorial.math.lamar.edu/Classes/Alg/Alg.aspx>

**Disability Support Services:** If you need to contact the Disability Support Services, then please contact them as soon as possible. More information can be found here: <https://www.deanza.edu/dss/>

**Academic Integrity:** This is pretty straightforward: Do not cheat on quizzes, exams, or directly copy other student's work. It is not worth getting caught and suffering the consequences. For more information about De Anza College's policy on academic integrity:  
<https://www.deanza.edu/studenthandbook/academic-integrity.html>

**Policies for This Class:** These policies are part of the syllabus and will be strictly enforced. By enrolling in this course, you as the student agree to accept these policies and follow them and agree that the **instructor reserves the right to drop a student from the course with a W if any of the policies are violated.** Further action may also be taken against a student who violates specific policies, such as the policy on cheating.

- Cell phone use (talking on your phone, texting, etc.) during lecture is not allowed. This is considered to be rude behavior and tells me that you are not paying attention in class. If you are using your phone, then you will be warned once to stop. If it happens again, then you may be asked to leave the class and you will not be allowed back into the class until you emailed the instructor or talked to him before the next class meeting.

- Talking during class is also not allowed. This is also considered to be rude behavior, and it is distracting to the professor. If you are being disruptive and talking to another student during class, then I reserve the right to move you to the front of the classroom or I may ask you to leave the class and you will not be allowed back until the class until you have emailed the instructor. If you have an emergency and need to use your cell phone, then you are free to excuse yourself from class to deal with the situation.

- Tests are usually given at the end of class and must be completed by the time class time ends. You will receive a two minute warning before your time is fully up. When time is over, you must put down your

writing utensil and stop writing immediately. If you do not stop writing immediately, your test may not be collected and you may receive a grade of zero. Also, during exams everything must be off of your desk and either in your backpack (or under your seat if you do not have a backpack). If the instructor sees any phones, paper, notebooks, textbooks, etc. out during an exam, then it will be considered cheating and the student will receive a zero for that exam. **If the instructor observes a student placing his or her hands beneath his or her desk for an extended period of time, the instructor may ask that student to stand up or move to another desk.** If a student is observed with a cell phone in his or her hands, lap, or other easily accessible place after the student has received his or her test, that student will be considered cheating and will receive a zero on that test.

- If a student is caught cheating, the instructor reserves the right to assign a grade of F for the entire course or to drop the student with a W from the course. If a student is returned a graded test or quiz and the student changes his or her incorrect answers in order to receive more points, the student is considered cheating and such an act will carry the same consequences as those mentioned above. If you are caught cheating on the final exam, you will automatically receive a grade of F for the course.
- Late adds and late drops will not be processed. Calendar:

1 <sup>st</sup> week	10th,12th Jan	1.1,1.2	1.3,1.4,1.5
2 <sup>nd</sup> week	17th,19th Jan	1.6,1.7 Quiz 1	1.8,1.9
3 <sup>rd</sup> week	24th,26th Jan	1.10 review	2.1,2.2 Exam 1
4 <sup>th</sup> week	31st jan,2 Feb	2.3,2.4	2.5 2.6
5 <sup>th</sup> week	7th Feb,9 <sup>th</sup> Feb	2.7 Review Quiz 2	Exam 2
6 <sup>th</sup> week	14 <sup>th</sup> Feb,16 <sup>th</sup> Feb	3.1	3.2
7 <sup>th</sup> Week	21 <sup>st</sup> Feb, 23 <sup>rd</sup> Feb	3.3 Quiz 3	3.4
8 <sup>th</sup> week	28 <sup>th</sup> Feb,2nd March	3.5 review	Exam 3
9 <sup>th</sup> week	7 <sup>th</sup> ,9 <sup>th</sup> March	10.2	10.2
10 <sup>th</sup> week	14 <sup>th</sup> ,16 <sup>th</sup> March	10.4	10.4
11 <sup>th</sup> week	21 <sup>st</sup> ,23 <sup>rd</sup> March	Exam 4	review
12 <sup>th</sup> week	Final Exam		Final exam

**Monday, Jan. 9** :: First day of Winter Quarter 2017.

**Saturday, Jan. 21** :: Last day to add quarter-length classes. *Add date is enforced.*

**Sunday, Jan. 22** :: Last day to drop for a full refund or credit (quarter-length classes).

**Sunday, Jan. 22** :: Last day to drop a class with no record of grade. *Drop date is enforced.*

**Friday, Feb. 3** :: Last day to request pass/no pass grade. *Request date is enforced.*

**Friday, March 3** :: Last day to drop with a "W." *Withdraw date is enforced.*

**Monday, Jan. 16** :: Holiday: Observance of Martin Luther King's Birthday

**Friday-Monday, Feb. 17-20** :: Holiday: Presidents' Day Weekend (no classes)