

**CLASS MODE:** 80% in person and 20% asynchronous.

**In person time and location:** M,T,W,Th 11:30-12:20pm in S-16, students are required to attend lecture, take note, and collaborate.

**Asynchronous time:** Students are required to do weekly section quizzes, Canvas discussions, and additional classwork.

**Instructor:** Vinh Kha Nguyen

**How to contact instructor:** [nguyenvinh@fhda.edu](mailto:nguyenvinh@fhda.edu) or Canvas Inbox the instructor (preferably)

**Office hours:** M,W, Th 1:30-2:20pm on Zoom (see Canvas course for zoom link)

T 1-1:50pm in S-76d

**Textbook:** Precalculus with Limits, 5<sup>th</sup> Edition by Ron Larson, published by Cengage. (eText or .pdf copy is ok)

**Grade** is composed of homework, quizzes, discussions, exams, and final.

0-59.99% F	70-76.99% C	80-82.99% B-	90-92.99% A-
60-69.99% D	77-79.99% C+	83-86.99% B	93-100% A
		87-89.99% B+	

homework	quizzes	discussions	exams	final	total
70pts	100pts	30pts	180pts	120pts	500pts

**Homework:** each hw due date is posted on the course calendar and Canvas Grade tab. *Late homework gets 0pts regardless of excuses. Student must submit hw on Canvas using the Grades tab by its due date to get credit.*

**Discussions:** discussion and its due date are posted on the course Canvas Grade tab. *Missed discussion gets 0pts regardless of excuses.*

**Quiz:** each section quiz is on open Monday and must be completed by Sunday on Canvas. *Missed quiz gets 0pts regardless of excuses.*

**Exam:** each exam date is posted on the course calendar and must be taken in person. *Missed exam gets 0pts regardless of excuses.*

**Final:** comprehensive and given in a specific date and time during final week. There is no make-up for final exam.

*If student notices that the instructor made an error on the grading, the student is responsible to inform the instructor within a week of the date of the exam/quiz. Otherwise, the student's score on the exam/quiz will be unchangeable.*

**Makeup Policy:** No makeup quizzes or exams are available. Student must notify the instructor in advance of a missed exam to use the following makeup policy.

**Only 1 missed exam due to an excused absence or emergency will be covered by the final exam (half point).**

#### Exam procedure/policy:

- Each exam is 50 minutes, and there is no dropping lowest exam score.
- The Final Exam is 2 hours. (see course calendar for detail)
- Make sure you have fully studied and prepared before you take each exam. (see Canvas Modules for outlines)
- **All exams must be taken in class in person.**
- **No calculator, phone, and restroom break are allowed during quizzes and exams.**

**Academic Dishonesty:** Students will get 0pt on the related assignments if:

- Cheat on exams and assignments.
- Copy other's work as their own.
- Only include the final answer, but do not show any work or offer any explanation.
- Alter work on exam/quiz after it has been graded to deceive the instructor.
- **Sharing/Uploading instructor's exams or a part of the exam online for others to view will result in a failing grade.**

Repeated academic dishonesty will result in a failing grade in the course. Moreover, all academic dishonesty instances will be reported to the college!

**Time Commitment:** Students are also expected to spend at least 10 hours each week outside of class to do homework and study for quizzes and exams.

**Grade improvement:** This class is rigorous, so it can be fast-paced and challenging quite often during the quarter. The only way to build confidence is through practice and more practice. Other strategies to improve grade: take detailed note during lecture, ask questions when in doubt, work with classmates during group work, form study group, do hw sooner than later, seek help when need help, understanding rather than memorizing, prioritize tasks, do not multi-tasking while studying, etc.

**If you are interested in improving your grade, please spend time to study and do the homework.**

**Campus tutoring, additional assistance, and Internet resources:**

- On campus tutoring in S43: <https://www.deanza.edu/studentsuccess/mstrc/>
- Online tutoring: <https://www.deanza.edu/studentsuccess/onlinetutoring/>
- Student's services: <https://www.deanza.edu/services/>  
Disability Support Service, EOPS, Veterans, CalWORK, Foster Youth, Food Pantry, Health Service, etc.
- The Internet: Youtube lecture video, Khan Academy, Paul's note, Wolfram Alpha, Microsoft Math Solver, Desmos, GeoGebra, etc.

**Students Responsibility:**

- Read the syllabus word by word and honor the syllabus.
- Attend lecture, take note, and study problems on the note before working on homework.
- Collaborate with classmates and the instructor during group work and in-class activities.
- Do and submit all assignments on time.
- Do homework outside of class before the next lecture to stay current with the materials.
- Study and prepare for quizzes and exams.
- Read textbook for more examples.
- Behave as educated and civilized individual, to be hold accountable for your actions.

**Attendance:** Students are expected to attend all class meetings, arrive on time, take note, and stay for the entire class. The instructor reserves the right to drop/withdraw students who are absent more than five lectures during the quarter. Moreover, **showing up after roll call is counted as one late. Two lates = 1 absence.**

**Withdrawal/Drop Policy:** It is the ultimate responsibility of the student to drop the class. Do not rely on the instructor to drop. A student who stops coming to class, stops working on assignments, and fails to withdraw by the deadline will get a grade FW.

**Smartphone Use:** All smartphones must be on silent mode and put away during lecture. We do not learn how to text or search the Web in this class, so there is no reason to have smartphones out during class unless the instructor allows.

**Expected Student Conduct:** A student who is disruptive will be asked to leave the class. A student who refuses to leave the room will be dropped from the class and will be reported for further action. During the quarter, if you have any questions about the course policies, you will be first referred to this syllabus. Please make sure you keep a copy. You can find Foothill-De Anza College Code of Conduct at <https://www.deanza.edu/student-development/conduct.html>

**Accommodation:** Students who need additional accommodation, due to a learning disability or some other reason, please contact the instructor during the first two weeks of class to discuss your options. Disability Support Services determines accommodations based on appropriate documentation of disabilities. DSS is located in Student Community Services building room 141, and their phone number is (408) 864-8753.

**All students registered for this course will be expected to uphold the following values:**

We strive to establish a class atmosphere that is welcoming and inclusive so that students may bring their authentic selves and work to reach their potential. We recognize the value and individuality that each student brings – our learning experience becomes all the richer when we hear from different perspectives. As such, we support all students equally, without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.

**Course description:** This course covers polynomial, rational, exponential, and logarithmic functions, graphs, solving equations, conic sections, systems of equations and inequalities.

**Course SLOs:**

Upon successful completion of the course, students will be able to:

- 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.

Tentative Course Calendar

M	T	W	Th
1/06 Syllabus and Canvas Algebra Self-Eval ws	1/07 Ch1 Exponents and Radicals	1/08 Ch1 Solving Equations (factoring, zero product property)	1/09 Ch1 Applications of Equations
<b>1/13 Hw#1 due</b> Ch1 Interval notations and Solving Inequalities	1/14 Ch1 Solving Inequalities Cont.	1/15 Ch1 Linear equation, graph, and applications	1/16 7.2 Systems of equations
<b>1/20 Holiday</b> <b>NO CLASS</b>	1/21 7.2 Applications of System of equations	1/22 7.5 Systems of inequalities	<b>1/23 Hw#2 due</b> <b>Exam#1</b>
1/27 1.4 Functions, Domain & Range	1/28 1.4 Functions and Substitution	1/29 1.5 Graphs of functions, inc/dec, local min/max, roots/zeros, asymptotes	1/30 1.5 Absolute values and Piece-wise functions
<b>2/03 Hw#3 due</b> 1.7 Sketching functions using transformation	2/04 1.8 Function operations and compositions	2/05 1.9 Inverse functions	2/06 2.1 Quadratic functions
2/10 2.2 Polynomial functions	2/11 2.3 Rational Root Theorem and Synthetic Division	2/12 2.5 Zeros of polynomial functions	<b>2/13 Hw#4 due</b> <b>Exam#2</b>
<b>2/17 Holiday</b> <b>NO CLASS</b>	2/18 2.6 Rational Functions	2/19 2.6 Asymptotes of Rational Functions	2/20 2.6 Simplify complex quotients
<b>2/24 Hw#5 due</b> 3.1 Exponential functions	2/25 3.2 Logarithmic functions	2/26 3.3 Properties of log and the three laws	2/27 3.3 Continues
3/03 3.4 Solving exponential equations	3/04 3.4 Solving logarithmic equations	3/05 Catching up	<b>3/06 Hw#5 due</b> <b>Exam#3</b>
3/10 3.5 Modeling with exponential functions	3/11 3.5 Continue	3/12 Radical Functions	3/13 Solving Radical Equations
<b>3/17 Hw#6 due</b> Ch10 Conic section: Identify and graphing	3/18 Ch10 Conic section cont.	3/19 Final review	3/20 Final Review
<b>3/24 Hw#6 due</b> <b>FINAL EXAM</b> <b>11:30-1:30pm</b>	3/25	3/26	3/27

1/19 Last day to add/drop

1/21 Census

2/28 Last day to drop with a W

3/24-3/27 Final Exam week, no lecture

## Math 31 Homework

(see Canvas for due date, scan and upload files in .pdf format)

- Homework is graded on completeness and neatness, see tentative course calendar for due date.
  - Must show work for each problem. Hw without show work will be -1pt.
  - Submit one file per section. If not, hw will be -1pt.
  - Name each file to match with the hw description. If not, -1pt.
  - Deduct points from each missing problem depending on the amount of problems in each hw.
- Why should students care about showing work?
  - **Practice makes confidence**
  - **Help to prepare for quizzes and exams**
- Students are responsible to do all homework and submit the work on time,
  - Late hw gets a solid 0pt, so do not submit late hw.

### Hw#1

Do all problems on Ch1 Exponents and Radicals worksheet

Do all problems on Ch1 Equations and Applications worksheet

### Hw#2

Do all problems on Ch1 Inequalities and Applications worksheet

Do all problems on Ch1 Linear Equation and Applications worksheet

Do all problems on Ch7 System of Linear Equations and Applications worksheet

Do all problems on Ch7 System of Linear Inequations and Applications worksheet

### Hw#3

Do all problems on Ch1 Functions, Domain, Substitution worksheet

Do all problems on Ch1 Graphs of Functions, Piece-wise Functions, Application worksheet

### Hw#4

1.7 #11,12,13,14,21,23,25,37,39 pg.72-73

1.8 #7,9,27,31,35 pg.81

1.9 #23,27,29,55,57,61 pg.91

Do all problems on Ch2 Polynomials and Applications worksheet

### Hw#5

Do all problems on Ch2 Rational and Complex Functions worksheet

3.1 #9,10,11,12,19,27 pg. 206

3.2 #7,11,15,17,25,27,37,38,39,40 pg.216

3.3 #19,21,23,25,27,29,41,45,51,55,59,63,67,71,73 pg.223-224

3.4 #21,23,25,27,37,39,4,49,51,53,55,57 pg.233

### Hw#6

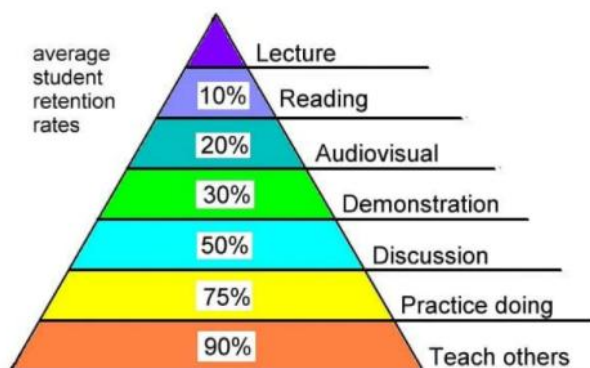
Do all problems on Ch3 Modeling with Exponential Functions worksheet

Do all problems on the Radical Functions and Equations worksheet

### Hw#7

Do all problems on Ch10 Sequences and Series worksheet

### Learning Pyramid



Source: National Training Laboratories, Bethel, Maine

**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.

**Office Hours:**

M,W,TH	01:30 PM	02:20 PM	Zoom	Zoom
T	01:00 PM	01:50 PM	In-Person	S-76d