

**Syllabus for Math 43 Precalculus III: Advanced Topics  
Summer 2015  
Physical Science, Mathematics and Engineering Division  
De Anza College**

**Course:** Math 43 Precalculus III: Advanced Topics, 5 units, CRN 11740

**Instructor:** Lance Lund

Email: lundlance@fhda.edu

**Textbook:** Precalculus with Limits, 2<sup>th</sup> edition by Ron Larson with a code for WebAssign

**WebAssign:** This an online program you will be using to complete homework assignments. You can purchase it from the website or purchase it together with the textbook. Your purchase will include a Student Access Code to WebAssign. Here are the steps to sign up for the online homework on WebAssign:

1. Go to <http://www.webassign.net>
2. Click on "I have a Class Key"
3. Enter: deanza 6634 5068
4. Fill out your personal information

**Optional / Recommended Materials:**

- Plotting calculator such as TI-83 or TI-84
- "Graphing Calculator" software package for Macintosh and Windows (go to [www.pacifict.com](http://www.pacifict.com) for details in ordering software)

**Class Hours and Location:** 10:00 am – 12:15 pm Mon-Thur, Room L65, De Anza College

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

<b>Grading:</b>	Class Participation	5%
	Homework	20%
	2 Midterm Tests	50%

Final Exam (Comprehensive)	25%
<hr/>	
Total	100%

### Course Description:

The course will cover conic sections, parametric equations, systems of equations and inequalities, vectors, lines and planes, sequences and series, polar coordinates, mathematical induction, and the binomial theorem. The corresponding sections in the textbook are chapter 6 sections 3 and 4, chapter 7 sections 1, 3, and 5, chapter 8 sections 1-5, chapter 9 sections 1-5, chapter 10 sections 2-4, 6,7-9, and chapter 11 sections 1-4.

### Student Learning Outcome Statements (SLO)

- Analyze, investigate, and evaluate linear systems, vectors, and matrices related to 2 and 3-dimensional objects
- Graph and analyze regions and curves represented by inequalities or trigonometric, polar, and parametric equations
- Analyze, develop, and evaluate formulas for sequences and series and justify these formulas by mathematical induction

### Expectations:

Students are expected to attend class on time and prepare for each lecture by reading the appropriate sections of the textbook and posted lecture notes to better understand the material presented in class. Students are expected to participate in class discussions and are encouraged to ask questions about any of the material. Notify me by email or in person prior to any expected absences.

### Homework:

All homework will be done on WebAssign and must be completed by the due date specified on WebAssign. Each student is expected to keep a notebook showing all work leading to a solution. Collaboration on homework is allowed and encouraged. Each homework assignment in the notebook should be legible and clearly labeled with the problem number and due date in the top left corner of the page. The notebook will be collected after each midterm test and graded. The combination of homework scores from WebAssign and the notebook grade will contribute equally to the homework grade. The homework grade counts as 20% of the final grade.

### Course Lecture Notes:

Copies of all course lecture notes will be posted on the online tool Course Studio in [MyPortal.fhda.edu](http://MyPortal.fhda.edu).

### Midterm Tests

There will be 2 midterm tests:

1<sup>st</sup> Midterm Test: Chapters 6, 7, and 8

2<sup>nd</sup> Midterm Test: Chapters 9,10, and 11

All tests are "open book and open notes" tests. There are no make-up midterm tests. The combined midterm tests count as 50% of the final grade.

**Final Exam:**

The final exam will be an "open book and open notes" comprehensive exam. There is no make-up test for the final exam. The final exam counts as 25% of the final grade.