

DE ANZA COLLEGE

Math 42-21 (20342): Precalculus II: Trigonometry

Date/Time: Mondays and Wednesdays, 1:30 am – 3:45 pm (Adm 103)

Instructor: Y. AuYOUNG

Office Visit Hours: MW 12:45 pm – 1:15 pm or by appointment (E37a)

Additional Office Hours: MW 12:00 pm – 12:45 pm via e-mail (auyoungyatman@fhda.edu) or v-mail ((408) 864-8999 ext 3312)

(Note: For your protection, I cannot and will not discuss any personal info, including student grade, via phone nor email)

This is a demanding, but rewarding class. If you cannot commit to a minimum of 10 hours study weekly, then you should take this class in a quarter when you have time to learn. This is a collaborative class and you will be expected to work with your classmates both inside and outside of class (no exceptions). You are encouraged to form study groups. Throughout the course, working collaboratively in groups and relating the material to the real world will be stressed. A scientific calculator (TI-83 or 84) will be used. Bring pencil, ruler, paper, calculator, and text to each class meeting. The students will work on Functions (Polynomial, Rational, Exponential, Log) and their Graphs; Transformation of Functions; Composite, Inverse and Combination of Functions, as well as Math Models

Students Learning Outcomes (SLO): Formulate, construct, and evaluate trigonometric models to analyze periodic phenomena, identities, and geometric applications.

Prerequisite: Math 41 (with a grade C or Better)

Text: Pre-Calculus with Limits by Larson Second Edition, (Brooks/Cole CENGAGE Learning)

Related Materials: TI-83 PLUS (or 84 or 86) graphing calculator is required (**Instructions:** <http://www.ti.com/calc>)

Student Conduct: You are required to participate in all class work. Any student disrupting class will be asked to leave. A student who refuses to leave the room will be dropped from the class and will be reported for further action.

Cheating will not be Tolerated. If anyone is caught cheating in any work (in class/take home), s/he will pay the consequences

Cell Phones: In the classroom, you **must turn off or set in vibrate mode your cell phone and all electronic equipments.** If a cell phone rings in class, the student will have to leave and this will count as a full class absence. **If this should occur during a quiz, test or the final exam, the student will receive a zero grade for that test. Cell phone cannot be used as a calculator or for any purpose in quiz or exam.**

Attendance: Class attendance is mandatory and can earn up to 20 points for perfect attendance. You are expected to present promptly each class and stay for the entire class. Coming late, leaving early or in and out the classroom is irresponsible, impolite, and disruptive to your classmates and is not acceptable. Each absence, tardiness for any reason will result in a loss of 2 points. Arriving to class late or leaving early will be counted as half absent. You may be dropped for missing 2 classes without a reasonable excuse. **You must attend each class in the first week of class or you will be dropped.** If you miss a class, please work with a fellow student to keep up with class activity. You are responsible for reading the material on your own and for turning in all assignments that is due on the day you return to class.

Drop Policy: A student who discontinues coming to class and does not drop the course will receive an F. Should you stop attending, you will not be automatically dropped. **It is your responsibility to drop the class yourself.**

Homework: The purpose of homework is to help you learn the course material. It is your responsibility to read the text **before each class** and do the homework **on a daily basis.** You will be involved in a group with whom you may share your work. Homework must be done daily and will be collected on the due date at the beginning of class. Grading will be on your effort, neatness, and completeness. In order to receive full credit, you **must** follow the guidelines as described in the first class meeting and show how you arrived at the answer for each problem. **Turning in answers only is not considered completing the assignment. Late or sloppy homework could not earn any credit.** Some of the problems on quizzes/tests will be very similar to the homework/classwork problems. Please keep up with the assignments daily. **If you cannot commit 2 hours daily on study/homework, you are in the wrong class!** Collaborative effort on quizzes or tests, however, is **not** allowed. **Students who don't do homework do not succeed in math! Please keep up with the assignments daily.**

Projects: Projects are done in groups and use data collected by the group. **No make-ups or late papers will be accepted.**

Quizzes: Quizzes are closed book. Quizzes will test your understanding of the class material, and understanding and completion of homework problems. **The lowest quiz grade will be dropped. No make-ups are given for missed quizzes.**

Tests: Tests are closed book. **The lowest test grade will be dropped. No make-ups are given for missed tests.**

Final Exam: A two-hour comprehensive exam will be given on Wednesday, Dec 9, 2015, 1:45pm – 3:45pm. **If possible, the Multiple Choice and Graphing sections may be tested on Wed, Dec 2. Bring a brown #2052 scantron . If you miss the final exam, you will receive an F for the course.**

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|---------------|--|---------------------------------|---------------------|------------------------------------|
| Grade: | Quizzes (6@10) : 50 (lowest 1 dropped) | A⁻: 460 – 475 | A: 476 – 489 | A⁺: 490 or above |
| | Tests (3 @100) : 200 (lowest 1 dropped) | B⁻: 410 – 429 | B: 430 – 447 | B⁺: 448 – 459 |
| | Attendance : 20 | | C: 360 – 387 | C⁺: 388 – 409 |
| | Homework/Project : 34 (project - extra credits) | ----- | | |
| | Final Exam : 200 | D⁻: 300 – 320 | D: 321 – 341 | D⁺: 342 – 359 |
| | Total : 504 | F: below 300. | | |

Math 42 – 21: Precalculus II: Trigonometry – Minimum Homework Assignment Cover Sheet

Name: _____ Row: _____ CID: _____

Assignments are handed in within the first 3 minutes of the day they are due. **Late or sloppy work will not be accepted. Work MUST be neatly done in pencil on an 8½ x 11 loose-leaf binder paper.** Each answer must be clearly indicated and supported by sufficient work for full credit. Graph must be neatly done on a graph paper (use a ruler). Draw a line between each problem and **start a new page for each section.** Start each section on a new sheet of paper. Problems in each section must be clearly written and in proper order sequence. Staple each section separately. Submit HW and this cover sheet inside a two-pocket folder on the due date. Pass your HW folder to the front row at the beginning of that class.

Note: Check the HW# on the space provided & circle the problem(s) that you did not complete in this homework package.

____ H1 (8 sections: 4.1 – 4.8) due Wednesday, Oct 14

____ H2 (5 sections: 5.1 – 5.5) due Wednesday, Nov 4

____ H3 (3 sections: 6.1, 6.2, 6.5) due Monday, Nov 30

____ H4 (2 sections: 10.7 and 10.8) due Monday, Nov 30

Test 1 (Ch 4: 4.1 – 4.8): Wednesday, Oct 14

Test 2 (Ch 5: 5.1 – 5.5): Wednesday, Nov 4

Test 3 (Ch 6: 6.1, 6.2, 6.5 and 10.7 – 10.8): Monday, Nov 30

Final Exam: Wednesday, Dec 9, 2015, 1:45 pm – 3:45pm

The Multiple Choice/Graphing sections may be tested on Wed, Dec 2

Sec Page Minimum Homework Problems

| | | | |
|-------|------|-----|--|
| | 4.1 | 288 | 1 – 10, 17, 19, 25, 28, 29, 31, 44, 46, 48, 50, 51, 55, 60, 63, 73, 79, 81, 86, 91, 94, 99, 103, 106, 111, 115, 118, 119, 121 – 123 |
| | 4.2 | 297 | 1 – 4, 7, 11, 19, 25, 27, 33, 36, 41, 43, 44, 45, 48, 51, 54, 57, 59, 61 – 70 |
| (H1) | 4.3 | 306 | 1, 4, 6, 8, 9, 16, 20, (form a table: 21 – 30; 37 – 44 from 4.4), 32, 34, 41 – 45, 52, 53, 57, 60, 62, 66, 69, 70, 72, 77 – 84, 87 |
| | 4.4 | 316 | 11, 12, 19 – 23, 25, 29 – 31, 33, 45, 47, 50, 54, 55, 58, 65 – 69, 71, 78, 83, 89, 91, 95, 97, 98, 100, 103, 104, 107 |
| | 4.5 | 326 | 8, 9, 12, 17, 19 – 25, 27, 29, 31, 36, 44, 45, 51, 53, 58, 63 – 65, 73, 76, 77, 83, 90, 91, 95 – 97, 101 – 103 |
| | 4.6 | 337 | 15, 27, 32, 35, 50, 53, 57, 58, 61, 64, 65, 67, 72, 73, 76 – 79, 85, 89, 92, 95 – 97, 104 |
| | 4.7 | 347 | 1 – 4, 12, 15, 21, 27, 29, 31, 39, 43, 45, 49 – 54, 57 – 59, 66, 67, 69, 72, 75, 84, 88, 95, 99 – 104, 106, 110 – 117, 121, 123, 126, 137 |
| | 4.8 | 357 | 13, 17, 24, 33, 37, 42, 45, 55, 63, 67, 69, 70 |
| <hr/> | | | |
| | 5.1 | 377 | 7 – 10, 12, 17, 19, 20, 23, 29, 30, 39, 41, 45, 47, 55, 58, 64 – 67, 70, 71, 74, 77, 79, 82, 84, 85, 87 – 89, 92, 99, 102, 105, 107, 109, 111, 113, 117, 122, 125, 127 – 130, 133 – 139, 141 |
| | 5.2 | 385 | 1, 2, 7, 12, 14, 16, 22, 25, 27, 29, 31, 33, 36, 37, 40, 41, 46 – 52, 64, 65, 67, 68, 69, 71 – 75 |
| (H2) | 5.3 | 394 | 7, 9, 10, 17 – 23, 27, 34, 36, 38, 40, 43 – 47, 50, 54, 57, 59, 64, 66, 71, 75, 80, 83, 85, 86, 89, 93, 99 – 100 |
| | 5.4 | 402 | 7, 9, 10, 12, 14, 20, 23, 26, 29, 32, 33, 37, 39, 43, 47, 53, 55, 57, 59, 65, 68, 69, 73, 75, 79, 83, 87, 91 – 96 |
| | 5.5 | 413 | 1 – 10, 13, 17, 19, 21, 24, 26, 35, 37, 41, 47, 49, 52, 55, 60, 63, 69, 71, 75, 76, 78, 80, 85, 87, 90, 95 – 97, 100, 102, 103, 106, 107, 110, 113 – 110, 121, 124, 127, 129, 135, 139 – 140 |
| <hr/> | | | |
| | 6.1 | 434 | 6, 13, 18, 32, 33, 36, 37, 39, 42, 48, 50, 52, 54, 56, 57 – 59, 62 |
| (H3) | 6.2 | 441 | 4, 8, 9, 18, 31, 32, 36, 40, 42, 47, 50, 55, 56, 59, 63, 64, 67, 70, 71, 74 |
| | 6.5 | 476 | 7 – 10, 18 – 21, 31, 35 – 41, 48, 50, 55, 61 – 65, 69, 71, 81 – 83, 86, 88, 91 – 93, 96, 100, 103, 106 – 110, 112 |
| <hr/> | | | |
| | 10.7 | 781 | 13, 15, 20, 36, 38, 41, 46, 48, 58, 64, 67 – 72, 75, 79, 81, 87, 88, 91, 94, 101, 106, 107, 115, 118 – 120 |
| (H4) | 10.8 | 789 | 7 – 12, 13, 15, 17, 19, 21, 25, 34, 39, 43, 45, 47, 52, 56, 57, 61, 64, 65, 67, 68 – 72, 79 |

Note: Section 10.7 (Polar coordinates) will discuss the coordinates, the conversion between polar and rectangular coordinate system, and some basic simple polar graphs and their equations only. Section 10.8 (Graphs of Polar Equations) will cover various types of polar graphs. Math 43 will discuss all other polar properties, including Conics and in polar forms

De Anza College – Fall Quarter 2015
Math 42– 21 Tentative Schedule (Subject to be changed as needed)

| wk | Month | Monday | Tuesday | Wednesday | Thursday | <u>Reminder</u> |
|------------------|--------------|--|---|---|---------------------------|---|
| 1 | Sept | 21 4.1 – 4.2 <i>Begin TI-83/84 and HW</i> | 22 | 23 4.2 – 4.3 <i>Continue HW daily</i> | 24 | <i>Begins HW daily Prepare daily quiz Read course material before class</i> |
| 2 | Sept/ Oct | 28 4.3 – 4.4 Quiz | 29 | 30 4.5 – 4.6 Quiz | 1 | <i>Daily Quiz begins Last day to add: Sat, Oct 3 Last day to drop with no record of grade: Sun, Oct 4</i> |
| 3 | Oct | 5 4.7 Quiz | 6 | 7 4.7 – 4.8 Quiz | 8 | <i>Census Day: Mon, Oct 5 Daily Quizzes</i> |
| 4 | Oct | 12 4.8 Quiz | 13 | 14 5.1 T1 | 15 | <i>T1 (4.1 – 4.8) Last day to request P/NP: Fri, Oct 16</i> |
| 5 | Oct | 19 5.1 – 5.2 Quiz | 20 | 21 5.3 Quiz | 22 | <i>Daily Quizzes</i> |
| 6 | Oct | 26 5.4 Quiz | 27 | 28 5.4 – 5.5 Quiz | 29 | <i>Daily Quizzes</i> |
| 7 | Nov | 2 5.5 Quiz | 3 | 4 6.1 T2 | 5 | <i>T2 (5.1 – 5.5)</i> |
| 8 | Nov | 9 Holiday Veterans Day | 9 | 11 6.1 – 6.2 Quiz | 12 | <i>Last Day to drop with a “W”: Friday, Nov 13</i> |
| 9 | Nov | 16 6.5 Quiz | 17 | 18 6.5, 10.7 Quiz | 19 | <i>Daily Quizzes</i> |
| 10 | Nov | 23 10.7 – 10.8 Quiz | 24 | 25 10.8 Quiz | 26 Thanksgiving | <i>Daily Quizzes</i> |
| 11 | Nov/ Dec | 30 T3 Review | 1 | 2 Review (Final Exam Part I?) | 3 | <i>T3 (6.1, 6.2, 6.5, and 10.7 – 10.8) May schedule Final Part I (Multiple Choices, Graphing) on Wed (12/2)</i> |
| 12 | Dec | 7 | 8 | 9 Final Exam 1:45 pm – 3:45pm | 10 | <i>Final Exam (all chapters) – May schedule the multiple section on Wed Dec 2</i> |
| <u>Reminder:</u> | | 6 Quizzes (drop one) Q (4.1 – 4.4) Q (4.5 – 4.4) Q (5.1 – 5.3) Q (5.3 – 5.5) Q (6.1, 6.2, 6.5) Q (10.7, 10.8) | 3 Tests (drop one) T1 (4.1 – 4.8) T2 (5.1 – 5.5) T3 (6.1, 6.2, 6.5, 10.7 and 10.8) | Projects (tbd) typed and stapled packet | | a. 3 Tests drop the lowest test score b. 6 Quizzes drop the lowest quiz score c. Project (TBD) d. Final Exam |

* Winter 2016 Quarter Classes start Monday, Jan 4, 2016 Enjoy the Christmas and the New Year Holidays!