

MATH-42

Precalculus II: Trigonometric Functions

Winter 2019

MATH-42-13

Monday through Friday: 12:30pm-1:20pm in MLC108

INSTRUCTOR: Dr. Iaroslav Kryliouk

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OFFICE HOURS: Daily, 9:45am-10:45am in S76C. Daily, except Friday, 1:25pm-1:45pm in S76C.

Tutorial Center: S43

Course Description: The theory of trigonometric functions and their applications.

Text: *Precalculus with Limits*, by Ron Larson, 3rd edition, 2011, Brooks/Cole, Cengage Learning

More than ever in your past mathematics experience, *reading* your textbook will be essential. The exercise sets are written with the intent of forcing the student to approach problems graphically and numerically, as well as the traditional symbolic (algebraic) approach. There is such variety in the exercise sets, that a few lecture examples often can't illustrate every type of question in the homework. This make the reading a crucial part of the students day-to-day work. The De Anza College catalog advises students to do at least 2 hours of work outside the classroom for each hour spent in class.

Technology: Students must have a graphing calculator. The instructor will use a Texas Instruments TI-84 plus in lectures. Consequently, the TI-84 plus (or TI-84, TI-83+, TI-83) is recommended for the students, but any graphing calculator that has a "table" feature is acceptable. (The old TI-81 and TI-85 models do *not* have a table feature!). *Any calculators that can do symbolic mathematics such as TI-89 or HP-49 are not allowed on exams and quizzes.*

Pre-requisite: Mathematics 41 or equivalent (with a grade C or better); or a satisfactory score on the College Level Math Placement Test within the last calendar year.

Quizzes: There will be 4 quizzes 25 points each.

Tests: There will be four (4) tests worth 100 points each. Unless otherwise indicated, the graphics calculator will be required for tests. Material from any lecture, homework assignment, or quiz is fair game on test day. Be advised that all in-class assesments are closed book and closed notes ones.

The tentative schedule (subject to revision) of tests and the material covered is the following:

Test 1: Jan 29 (Sec. 4.1-Sec. 4.8 (all))

Test 2: Feb 19 (Sec. 5.1-Sec 5.5 (all))

Test 3: Mar 4 (Sec. 6.1-Sec. 6.2)

Test 4: Mar 19 (Sec.10.7, 2.4, and 6.5)

Makeup Tests: There are no make –up tests, *under any circumstances*. If a test is missed, the percentage on the final exam will replace the score of the missing exam. If a second exam is missed, the grade will be a zero.

The lowest score of 4 regular tests will be replaced by a percentage on the final exam, provided the latter is higher.

Final Exam: There will be a mandatory comprehensive two-hour final exam worth 200 points, and this exam *must* be taken during the scheduled exam time on Wednesday, March 27, 11:30am-1:30pm in MLC108.

Homework (HW): WEBASSIGN: <http://www.webassign.net>

- **Online homework system: REQUIRED** in this class
- You are required to do homework and turn it in by the weekly due dates using Webassign. Homework will be graded in Webassign.

Mini-projects: From time to time you may have mini-projects. Points earned for mini-projects will apply to your total grade. These are bonus points!

Attendance: Attendance will be taken at each session. **You are expected to attend all classes on time.** If you miss 3 class meetings, you may be dropped from the class. However this is your responsibility to drop the course officially if you decide not to attend any longer. The students are responsible for any material covered and any announcements made in their absence.

Final Grade: Your final grade will be determined based on the following:

Grading Scale:

Quizzes, HW

(100+50)	150 pts	X \geq 723 (96.5%)=A+	X \geq 566 (75.5%)=C+
Test 1	100 pts	X \geq 697 (93%)=A	X \geq 525 (70%)=C
Test 2	100 pts	X \geq 671 (89.5%)=A-	X \geq 450 (60%)=D
Test 3	100 pts	X \geq 645 (86%)=B+	X \leq 450 (60%)=F
Test 4	100 pts	X \geq 618 (82.5%)=B	
<u>Final Exam</u>	<u>200 pts</u>	X \geq 592 (79.0%)=B-	
Total Points	X=750 pts		

Missing one of the major tests is made up through added weight on the comprehensive final exam. Missing additional tests results in a score of zero.

***** NO OTHER MAKE-UPS WILL BE GIVEN*****

A grade of “I” (incomplete) will be given at the instructor’s discretion, if:

- i) A student has successfully completed at least 75% of the course work, and

- ii) has shown acceptable evidence which justifies his/her incomplete work.

Important Dates:

Monday, Jan 7-Winter quarter classes begin

Saturday, Jan 19-Last day to add for winter quarter

Sunday, Jan 20-Last day to drop a class with no record of “W” (Drop date is enforced)

Monday, Jan 21-Observance of Martin Luther King’s Jr. Birthday

Tuesday, Jan 29-Test 1

Friday, Feb 1-Last day to request P/NP grade

Feb 15-18, President’s Holiday-Campus Closed

Tuesday, Feb 19-Test 2

Friday, March 1-Last day to drop with a “W” (withdraw date is enforced)

Monday, March 4-Test 3

Tuesday, March 19-Test 4

Friday, Mar 22- Last day of classes

Wednesday, March 27-Final Exam, 11:30am-1:30pm, in MLC108

*** (N.B.: It is the student’s responsibility to complete the withdrawal process. Student who stop attending class are NOT automatically dropped. A student who stops attending class and does not complete the withdrawal process receives the grade of “F”)

Academic Misconduct: Academic dishonesty will not be tolerated. If a student is found cheating on an exam, plagiarizing on writing assignments, or violating other codes of academic integrity, he or she will receive a failing grade for the course and may be reported to the college for an appropriate action. See section on Academic integrity in your current schedule of classes catalog.

If you are student with a disability: For information or questions about eligibility, support services or accommodations to disability (physical or learning disability) see contacts below:

Disability Support Service (DSS): Student Services Building (408) 864-8753; TTY 408) 864-8753

Educational Diagnostic Center (EDC): Learning Center West 110; (408) 864-8839

Special Education Division: 864-8407; www.deanza.edu/specialed

TENTATIVE CALENDAR

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
JAN	7 classes start Syllabus	8 Sec. 4.1	9 Sec. 4.1	10 Sec. 4.2	11 Sec. 4.2
JAN	14 Sec. 4.3	15 Sec. 4.3	16 Sec. 4.4	17 <i>Quiz 1</i> (4.1-4.4)	18 Sec. 4.5 Saturday, Jan 19- Last day to add classes Sunday Jan 20-Last day to drop classes with no record of "W"
JAN	21 Observance of MLK's birthday	22 Sec. 4.6	23 Sec. 4.7	24 Sec. 4.7	25 Sec. 4.8
JAN / FEB	28 Sec. 4.8 Review for T1	29 Test 1 (4.1-4.8)	30 Sec. 5.1	31 Sec. 5.1	1 Last day to request Pass/No Pass Sec. 5.2
FEB	4 Sec.5.2	5 Sec. 5.3	6 Sec. 5.3	7 <i>Quiz 2</i> (5.1-5.3)	8 Sec. 5.4
FEB	11 Sec. 5.4	12 Sec. 5.5	13 Sec. 5.5	14 Review for Test 2	15 Presidents' Holiday- College Closed
FEB	18 Presidents' Holiday- College Closed	19 Test 2 (5.1-5.5)	20 Sec. 6.1	21 Sec. 6.1	22 Sec. 6.1
FEB / MAR	25 Sec. 6.2	26 Sec. 6.2	27 Sec. 6.2	28 <i>Quiz 3</i> (6.1-6.2)	1 Last day to withdraw with "W" Review for Test 3
MAR	4 Test 3 (6.1-6.2)	5 Sec.10.7	6 Sec. 10.7	7 Sec. 2.4	8 Sec. 2.4
MAR	11 Sec. 6.5	12 Sec. 6.5	13 Sec. 6.5	14 Sec. 6.5	15 <i>Quiz 4(10.7,</i> <i>2.4,6.5)</i>
MAR	18 Review for Test 4	19 Test 4 (10.7, 2.4, 6.5)	20 Review for FE	21 Review for FE	22 Review for FE
MAR	25	26	27 Final Exam 11:30 am— 1:30pm	28	29

Student Learning Outcome(s):

*Formulate, construct, and evaluate trigonometric models to analyze periodic phenomena, identities, and geometric applications.