

MATH 42.07 – Spring 2018
PRECALCULUS II – Trigonometric Functions
CRN 42023, Classroom MLC 108
MTWThF 10:30 – 11:20 AM

Instructor: Ms. S. Arabhi (pronounced AA-rub-hee)

E - mail: arabhisundararajan@fhda.edu

Website: Check “**My Courses / Course Studio Links**” in My portal for handouts, worksheets, announcements, reminders etc.

Office Hours: Part-time office E37: Monday and Thursday: 9:30 AM to 10:30 AM
Feel free to set up appointments outside these hours as well.

Prerequisite: Math 41 (with a grade of C or better); or a satisfactory score on the College Math placement Test within the last calendar year

Required Text: 1) PRECALCULUS with Limits, (3rd Edition) By Ron Larson
2) A Scientific Calculator with trigonometric and inverse trigonometric capabilities (graphing calculators are not allowed)

Course Objectives: (This is not an exhaustive list.)
(Chapters 4, 5, 6, 10 from the text book and Hyperbolic functions)
Define and evaluate trigonometric functions; solve right and oblique triangles; analyze inverse trigonometric functions; solve trigonometric equations; define polar coordinate systems; perform operations with 2D vectors;

Homework:

- Reading assignments & problems from the text will be assigned in every class and it is your responsibility to solve the problems and keep a written record. We will discuss solutions to some problems, but not all.
- Written Homework will be due when I **finish a chapter**. You are encouraged to work in groups, but do not copy each other's work.
- Each section will be worth 3 points. NOTE that in the written homework, answers must have supporting work to receive credit! (Answers alone will receive a 0 score.)
- **I will not accept homework on paper torn from spiral notebooks. Also, staple or use paper clips to hold your work together. Please do not fold the corners. LATE OR ILLEGIBLE HOMEWORKS WILL NOT BE ACCEPTED.**
- Please also go over the **Homework Dos and Don'ts** handout thoroughly. Please find out about any missed work, assigned homework from “My portal” or a friend, if you are absent from class. Please do not ask me.

Quizzes:

There will be a quiz almost every Friday at the end of class (10 - 15 minutes) related to the material taught the previous Friday, Monday, Tuesday, Wednesday, and Thursday. Do your reading and homework everyday, to fair well in these quizzes. ***Don't miss any of these since there will be NO MAKE-UP quizzes.*** Do not ask for make-ups. I will drop two lowest quiz grades at the end of the semester, so if you are absent during a quiz, the absent quiz could be your dropped quiz.

Special Quizzes (Tutorial): (10 points each)

A set of questions will be given in class, and you will be allowed to work in groups. You have to turn in the solution at the end of the class. These quizzes are special because I will assist you in solving the problems. These quizzes will assess your understanding of the material taught in the class, as well as encourage you to work in groups. These will also help you review for the exam next day. The quiz will be closed book, so you should be prepared with the material.

Don't miss these, since there will be no make-ups.

Exams:

No make-ups will be given for any missed exam.

Exams are primarily based on homework, problems from quizzes, and solved problems in the textbook. So, the best way to prepare for exams is to sincerely do all the homework, read the book, learn from your mistakes in the quizzes, and clear all your doubts as soon as you can. There will be four written exams (50points; 50 minutes), and a final exam (100 points; 2 hours). [It is your responsibility to let me know as soon as possible (within 24 hours) if you are going to miss an exam (via phone, e-mail, note, in-person, etc) and provide "valid" reason and documentation for the absence.] **I will consider the best three exam scores out of the 4 exams, and the lowest score will be dropped.** You CANNOT miss the Final Exam. The final exam will be CUMULATIVE, i.e. it will contain everything covered during the course. (The points of the final exam will be added to the total points). **FINAL EXAM IS SCHEDULED FOR Thursday, JUNE 28th from 9:15 AM to 11:15 AM in Room # MLC 108.**

Pop quizzes / Class Participation / Attendance / Class work:

- 15-30 points of your grade will be determined from class participation/ daily activities / pop / surprise quizzes .The pop quizzes can be given at any time/ any day. **These points will be taken off and cannot be made up if you are absent from class.** Attendance is strongly emphasized and class participation is actually part of your course grade.
- Study for at least 2 hours every day and be ready with any questions you have. I always encourage class discussions. My classes always begin promptly, so I ask that you be on time. Please wear a watch and don't enter the classroom if you are late. [During the first week of class this policy is relaxed.]
- Students who attend regularly and show up on time to my classes are almost always successful. I may drop a student from the class if they are absent 4 or more times, or miss a major exam. (But do not assume if you stop coming to class, you will automatically be dropped. You are responsible for dropping yourself out of this class). I will also drop any student who, in my judgment, is habitually disrupting the class. Please switch off all noise making devices and wait to text until after the class ends.

*** IF YOU MISS ANY CLASS, LOOK IN "MY PORTAL" or ASK YOUR CLASSMATES FOR THE MISSED WORK. PLEASE DO NOT ASK ME. ***

Grading:

Class Participation	15 Points	M, T, W, Th, F
Quizzes (5 Points each)	45 Points	Every Friday (end of class)
Homework (3 points per section)	60 Points	Due at the end of every chapter.
Special Quiz (10 points each)	40 Points	See calendar
Extra credit Pop quizzes	Up to 40 points	Any day, any time during class
Exam 1	50 Points	FRIDAY, April 20 th
Exam 2	50 Points	TUESDAY, MAY 1 st
Exam 3	50 Points	TUESDAY, MAY 22 nd
Exam 4	50 Points	TUESDAY, JUNE 12 th
Final Exam	100 Points	THURSDAY, JUNE 28th 9:15 to 11:15 AM in MLC 108

Total Points: 410 to 450

Letter Grade: I do not curve. Course grades will be determined on a standard scale:

≥ 97 %	→ A+	94 - 96.9% → A	90 - 93.9% → A-
87 - 89.9%	→ B+	84 - 86.9% → B	80 - 83.9% → B -
77 - 79.9%	→ C+	70 - 76.9% → C	
67 - 69.9%	→ D+	64 - 66.9% → D	60 - 63.9% → D -
≤ 59.9%	→ F		

Additional NOTES:

- Last day to **drop class** with a full refund and with no record of grade is **Sunday, April 22nd**.
- The deadline for dropping with a “W” is **Friday, June 1st**. In every case, a student is responsible for dropping him/herself. You should not assume that you are automatically dropped from the class for non-attendance. Students on the final grade roster who have not dropped, and who do not show up for the final exam, automatically receive an F in the course.
- **Last day to add** is Saturday, April 21st.
- **Cheating** on any exam/quiz/ HW assignment/tutorial may result in an F grade for the course and is absolutely prohibited in my class! Looking at someone else's exam, helping another student during an exam, talking to anyone except me during an exam, or using an external source of information for which you were not explicitly given permission, will result in an instructor drop or an F grade for the course. Cheating incidents will also be reported to the Dean of Students. I will be extremely strict about not allowing any sort of electronic devices including cell phones, laptops etc during exams, quizzes.
- **New College Policy:** Students cannot take the same class more than three times for a grade, including W. Late adds and drops will not be processed.

Additional Assistance:

The key to being able to take advantage of any of these services is to be quick to recognize your need for assistance. It is always better to seek help sooner rather than later.

- 1) The Math, Science & Technology Resource Center (MSTRC) in S43 provides assistance M-Th: 830 AM to 630 PM and F: 8:30 AM to 12:30 PM.
- 2) Your classmates: Many students find informal study partnerships and groups to be most helpful in learning math. I recommend that you study with others in this class. The effort to meet someone in class is worthwhile.
- 3) **SEE ME DURING OFFICE HOURS**: Please feel free to ask me questions during class time or fix appointments outside class timings. I'll give you as much direction and assistance as I can, and refer you to additional resources as needed. **Do not wait until you are drowning to get help.**
- 4) Any student with a documentable disability who needs academic accommodations should contact:
 - a) Disability Support Services (DSS): Student Services Building (408) 864 8839
 - b) Educational Diagnostic Center (EDC): Learning Center West 110; (408) 864 8839
 - c) Special Education Division: 864 8407; WWW.deanza.edu/specialed

Contract

One purpose of this "green sheet" is to provide you with the guiding principles upon which the class runs, and another is to make sure that you have at your finger tips answers to any questions which might arise.

Please put this sheet in a safe place where you can easily refer to it.

Make sure you read the green sheet in its entirety before you ask me any questions about the course.

USEFUL TIPS:

1. Education is a gift, an opportunity, not a guarantee. When you feel like giving up, carefully organize your rationalizations and excuses on a piece of paper. When your list is complete, burn the paper! Then **keep working** on ...
2. Minimize your dependence on published answers at the back of the book/ internet. Learn to verify your answers by checking your solutions or by working the problem two different ways (perhaps numerically and algebraically). You will NOT have an answer key during examinations, nor at work, so **develop self-reliance**.
3. Students often fall into the trap of thinking that if they have done all the homework (often by looking at the answers and working backwards, or by plugging in numbers in similar problems), that they have mastered the material. With luck, this level of effort alone might earn a 'C' grade. Serious students do enough additional homework problems to evoke a feeling of **smug confidence**.
4. Be sure to quickly scan-read each section taught the previous day before coming to class. You can then spend far less time taking notes, concentrate more on what is said, and ask lots of questions.
5. Once class starts, all conversations among students must stop. Except when we are working in groups, only one person will speak, and everyone else will listen. After the second warning, I will have to report the offending student(s) to the counselor, Luis.
6. You will never be penalized for being late. But please be respectful and mindful to your fellow classmates and teacher in case you do get late, and quietly take a seat without making conversation with anyone.
7. **A Word about cell phones/ ipads/ laptops / smart watches:** It is my expectation and your responsibility that your phone and all digital devices be turned off and stowed in your purse or backpack during class. They should never be seen while class is in session. If your phone sounds during a quiz or exam, this will be an indication that you are done with the quiz or exam and you risk having your paper taken from you or points deducted. Please switch off your cell phones / beepers before entering the class out of courtesy to others. If you decide to take a call or text during class, I'll probably ask you to take the rest of the class off.

Specific note on Math 42:

*This course is **quite different** from an Algebra class in that an Algebra class often consists of distinct "modules", and it is possible to do poorly on one module and yet succeed in a later unrelated module. That is not the case with trigonometry because the material in a Trigonometry class is tightly connected – if you do poorly early on (due to insufficient studying, or not getting effective help), it will continue to prevent you from succeeding until you go back and master the earlier material. So you should start studying immediately.*

MATH 42 CALENDAR, Section 7, Spring 2018

Monday	Tuesday	Wednesday	Thursday	Friday	Wk
APRIL 9 <i>First day of Spring Quarter</i>	10	11	12	13 QUIZ 1	1
16	17	18	19 QUIZ 2	20 EXAM 1	2
23	24	25	26	27 QUIZ 3	3
30 Review & Special Quiz 1	MAY 1 EXAM 2	2	3	4 QUIZ 4 <i>Last day to request pass/no pass</i>	4
7	8	9	10	11 QUIZ 5	5
14	15	16	17	18 QUIZ 6	6
21 Review & Special Quiz 2	22 EXAM 3	23	24	25 QUIZ 7	7
28 NO Class	29	30	31	JUNE 1 QUIZ 8 <i>Last day to drop w/ "W"</i>	8
4	5	6	7	8 QUIZ 9	9
11 Review & Special Quiz 3	12 EXAM 4	13	14	15 QUIZ 10	10
18	19	20	21 QUIZ 11	22 Review & Special Quiz 4 Last class	11
25	26	27	28 FINAL EXAM: 9:15 am - 11:15 am Room MLC 108	29	12

Saturday, April 21st: Last Day to ADD

Sunday, April 22nd: Last day to drop for a full refund and no record of grades

Student Learning Outcome(s):

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