

**Math 42.27 Trigonometry Spring 2019**

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**Time:** Tuesday and Thursday from 4 p.m. to 6:15 p.m.

**Instructor:** Ron Nicoletti **Room:** MLC 270

**Prerequisite:** Math 41 or equivalent with a grade of C or better.

**Course Description:** This course, in combination with Math 41 (PreCalculus Functions) and Math 43 (Functions) will prepare students to take the Calculus sequence. This course includes an in-depth study of basic trigonometric functions, applications of trigonometric functions, trigonometric identities, graphs of trigonometric and inverse trigonometric equations, equations involving trigonometric functions, vectors and polar curves.

**Office Hours:** 30 minutes before each session in the Math Tutorial Center, S43

**Textbook:** Pre Calculus with Limits. 3<sup>rd</sup> edition (required).

**Related Materials:** TI-84, TI 84 Plus, TI 84 Plus C graphing calculator is required

**Attendance:** Attendance is mandatory. The last day to drop with no grade is April 21 ; the last day to drop with a “W” is May 31 . If paperwork for a drop is not completed by the student, a grade of F will be given for the quarter.

**Assignments:** Problems will be assigned at the end of each class session. These problem sets need to be attempted on a class –to- class basis. Time will be set at the beginning of each class to answer questions from the problem set.

**Quizzes:** There will be 3 scheduled quizzes modeling problems from the homework. The total points available for scheduled quizzes will be 100 points. If you miss a quiz it will count as a “zero”. Your lowest scheduled quiz score will be replaced by the final exam. There are no makeups for missed quizzes. Calculators may or may not be allowed.

Unscheduled quizzes may be given during any class session. These quizzes will be short in time duration (10 minutes). These quizzes will not be dropped. If absent the night of an unscheduled quiz the score will be a zero. Each “unscheduled quiz” will be worth 10 points.

**Tests:** There will be three exams given and each exam is worth 100 points. Your lowest exam score can be replaced by your final exam score. If you miss an exam it will count as a “zero”, and this will count as your lowest exam score. The total points available for exams will be 300 points. Calculators may be required any exam.

**Final Exam:** A comprehensive final exam will be given and carries a value of 200 points. The final exam will be given on June 27, at 4 p.m. The final exam must be taken on this assigned date or a final quarter grade of F will be given. Calculators will be required for the final.

**Grading:** Your quarter grade will be determined with the following scale:

<b>93 % of total pts</b>	<b>A</b>	<b>77-79%</b>	<b>C+</b>
<b>90-92%</b>	<b>A-</b>	<b>70-76%</b>	<b>C</b>
<b>87-89%</b>	<b>B+</b>	<b>60-69%</b>	<b>D</b>
<b>83-86%</b>	<b>B</b>	<b>below 60%</b>	<b>F</b>
<b>80-82%</b>	<b>B-</b>		

**Office Hours:** Tuesday and Thursday from 3:30 – 3:55 in the Math Tutorial Center (S43)

**Student Learning Outcome(s):**

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