

MA108 PRECALCULUS II

Spring 2019

Instructor: Rossana Capuani

Email: rcapuan@ncsu.edu

Time: M, W, F 10:40-11:30 am

Office Location: SAS Hall 4208

Office Hours: Wednesday, Friday 14:00-15:00 or by appointment.

Main Text: Trigonometry: A Circular Function Approach by Marie Aratari.

Objectives: This course will cover the following topics:

1. Circular Functions- including fundamentals of trigonometry, the unit circle, values of $\sin(t)$ and $\cos(t)$ for common arcs, $\tan(t)$ and the reciprocal trigonometric functions.
2. Graphs of Circular Functions-including the graphs of $\sin(t)$, $\cos(t)$, $\tan(t)$ and the reciprocal trigonometric functions, translations of trigonometric graphs, inverses of the circular functions and their function values.
3. The Trigonometric Functions- including angles in both degrees and radians, trigonometric function value for common angles, solving right triangles and their applications, law of sines and law of cosines.
4. Trigonometric Identities- including proving simple identities and sum, difference and half-angle identities for sine, cosine and tangent.

Course Information and Prerequisites: MA 108 is a 3-credit hour course. It is intended as a sequel to MA 107 for students whose major required Calculus I (MA 141). MA 107 and MA 108 are equivalent to the one semester course MA 111 (Precalculus algebra and trigonometry). Only students who have a C- or better in MA 107 may enroll in MA 108. Students who do not meet the prerequisites will be dis-enrolled. Students with a C- or better in MA 108 (in addition to a C- or better in MA 107) may advance to MA 141. MA 108 cannot be used as an elective course for students who are required to take MA 141. Credit for MA 108 does not count toward graduation for student in Engineering, College of Sciences, Design, Biological and Agricultural Engineering, Biomedical Science, Math Education, Science Education, Textiles, College of Management, and B.S. degree in CHASS. Credit is not allowed for both MA 108 and MA 111. Also, MA 108 should not be counted toward the GER mathematical sciences.

Grading Policy: Quizzes (20%), Midterm Average (60%), Final (20%).

A short quiz will be given every other Monday starting on Monday January 21st 2019. The average of these will form your quiz grade. There will be 3 midterms given throughout the semester. Attendance will be recorded for every class, except for test days. If you have 3 absences or fewer throughout the semester, you have the option to replace your lowest midterm grade with the grade from your final exam. A make-up test will be given only in the case of a documented, excused absence. Please contact me within 24 hours of a missed test a schedule a make-up. No make-up quizzes allowed.

Important Dates:

Midterm 1: Monday February 4 2019

Midterm 2: Monday March 4 2019

Midterm 3: Monday April 8 2019

Final Exam: Monday May 6 2019

Course Police:

1. Regular attendance is essential and expected.
2. Recommended homework problems will be assigned weekly. It will be in your best interest to complete these problems as they will form a great study tool for the quizzes and the tests. Please do not hesitate to ask me any questions that you may concerning these problems, either after class, in an office hour or by email.
3. Check your email often. Many announcements will be made or reiterated via email. You can reach me by email with any questions that you may have concerning the material throughout the week, however I may not respond immediately i the evenings after 5pm or on weekends so please take this into account when asking last minute questions for quizzes or tests.
4. Be accountable for your own education. You are responsible for resolving confusion about assignments, due dates, exam dates, accommodations, ect.
5. Do not submit work that is not yours. It is understood that your name or signature on any assignment indicates your adherence to the NC State Honor Pledge: " I have neither given nor received unauthorized aid on this test or assignment".

Disability Services: Reasonable accommodations will be made for students with verifiable disabilities. To receive accommodations, students must register with Disability Services for Students at 1900 Student Health Center, Campus Box 7509, 919-515-7653. Please see the Academic Accommodations for Students with Disabilities Regulations (REG02.20.1). You must discuss accommodations with me prior to a test date.