WILMINGTON UNIVERSITY
COLLEGE OF EDUCATION AND LIBERAL ARTS
BASIC COURSE INFORMATION

COURSE NUMBER   **MAT331**

COURSE TITLE   **Geometry**

CREDITS   **3**

PREREQUISITE   **MAT200 with a minimum grade of C or precalculus equivalent**

FACULTY MEMBER

TERM

METHOD OF CONTACT/ OFFICE HOURS

COURSE TIME BREAKDOWN

> **40 Hours of Structured Learning Activities**

TEXTBOOKS
*A list of course textbooks are available on the Wilmington University Bookstore website:
http://bookstore.wilmu.edu/

COURSE DESCRIPTION: This course presents the core concepts and principles of Euclidean geometry in two and three dimensions. Topics include geometric constructions, congruence, similarity, transformations, measurement, and coordinate geometry. Axiomatic systems and proofs are covered. An overview of non-Euclidean geometries is provided.

COURSE OBJECTIVES:

1. Apply the core concepts of Euclidean geometry, such as, but not limited to lines, angles, circles, polygons, and solids.
2. Apply formulas for p ded( )Tj for 4. Apply trigonometric principles to solve geometric problems.
5. Create direct, indirect, coordinates and statement-reason proofs to draw conclusions logically from given information.
6. Apply transformations to geometric objects, including the use of vectors.

METHODOLOGY

A.   **Teaching and Learning Strategies**
Drawing Geometry Assignments, Participation/Discussion Boards, Weekly Homework on MML, and Student-Directed Learning

B.   **Evaluation Methods**
Drawing Geometry Assignments, Participation/Discussion Boards, Weekly Homework on MML, Unit Exams on MML, and Projects/Presentations

ATTENDANCE POLICY:

EVALUATION PROCEDURE AND GRADING POLICY:

Grades will be determined using the following weights:

Drawing Geometry Assignments (Addresses objectives 1, 3, and 6)	15%
Participation/Discussion Boards (Addresses objectives 1 through 6)	10%
Weekly Homework on MML (Addresses objectives 1 through 6)	15%
Unit Exams on MML (Addresses objectives 1 through 6)	40%
Projects/Presentations (Addresses objectives 1 through 6)	20%

LATE ASSIGNMENT POLICY:

Mathematical objectives build on one another. For that reason, due dates are established to ensure that students are able to participate in the next lesson and that instructors can address students' misconceptions. If a student cannot meet a deadline, it is the student's responsibility to contact the instructor ahead of time, requesting an extension. When requesting an extension, the student must provide credible information and/or documentation to the instructor for review. The instructor will review requests and grant extensions on a case-by-case basis.

Possible reasons to request extensions: military deployment, severe health issues, natural disasters. Unacceptable reasons to request extensions: busy schedule, forgetfulness, last minute issues.

Online discussion boards: As it is not fair to other students in the course who are expected to respond to discussion board posts in a timely manner, late discussion board posts after the initial posting deadline do not receive credit.

COELA CLASSROOM STANDARDS: See Canvas "Syllabus" area

COURSE SCHEDULE (all assignments and due dates):