OAKLAND UNIVERSITY
DEPARTMENT OF MATHEMATICS AND STATISTICS
STUDENT INFORMATION SHEET AND SYLLABUS

Course: MTE 2111, Mathematics for Elementary Education II, (Geometric Structures), 4 credits

Section:	14149	Class Meets:	386 MSC
Semester:	Winter 2018		8-9:47am Tu/Thu

Instructor: Jane Mullally
363 MSC
mullally@oakland.edu

Office Hours: 9:45-10:30am Tu/Thu, (Room 363 MSC)

Prerequisite: A 2.0 or better in MTE 210 or MTE 2110 (Numerical Structures) or an equivalent course at another school. Prerequisites are strictly enforced, so that we can discuss the material in this course with the mathematical sophistication that it requires. If you have not met the prerequisite, you will not be permitted to remain in the course.

Required Text: *A Problem Solving Approach to Mathematics,* by Billstein, Libeskind, and Lott, 12th edition. In addition, you are responsible for reading most of Principles and Standards for School Mathematics, published by the National Council of Teachers of Mathematics. You can purchase this from the NCTM if you wish (see their website), but it is available on-line to NCTM members, and the cost of a student membership is about the same as the cost of the book. Copies are also on 2-hour reserve in Kresge Library and the ERL.

Syllabus: For a day-to-day list of topics, see the "DAILY SCHEDULE".

Calculator Policy: For this course you will need a calculator with at least the four arithmetic operations and square root. You can get a simple one for about $1 or a fancier ("scientific") calculator with many other functions (graphing capability, etc.) for more money. (The TI-83 or 84 would be a wise choice if you plan to take courses like MTH 1441.) You may use the calculator in all work for this course, and it is important to learn how and when to use it effectively.

Tests: There will be 2 in-class tests. They are scheduled for **February 8** and **March 27**. These tests will be closed book tests. Each test is worth 100 points. No make-up tests will be given. If you miss a test and promptly present legitimate, documented evidence for a valid excuse, your grade for the missed test will be determined by your final exam grade; otherwise the missed test will be counted as a 0.

Homework: Homework from the textbook will be assigned regularly. You must do it conscientiously, but it is not collected or graded. We will go over any questions you have about these problems in class. Your understanding and mastery of the material covered will be accomplished by consistently completing the homework assigned and asking for clarification when necessary.

Quizzes: There will be 2 in-class quizzes. They are scheduled for **January 18** and **March 6**. The quizzes will be given during the last hour of class on these dates. These will be closed book quizzes. Each quiz will be worth 50 points. No make-up quizzes will be given. If you miss a quiz and promptly present legitimate, documented evidence for a valid excuse, your grade for the missed quiz will be determined by your final exam grade; otherwise the missed quiz will be counted as a 0.

Final Exam: The final examination will be comprehensive. It will be given on Tuesday, April 24, 8-11am. The final exam will be closed book and will be worth 200 points.

Grading Policy: Your course grade will be based upon the percentage of total points you have earned out of the 500 points available to you (100 points for each test, 100 points for overall quiz grade, and 200 points for the final exam). There is no fixed grading scale for this course; a conversion formula from your percentage score to an Oakland University grade will be determined at the end of the course. However, the following list shows the lowest possible grade that a given percentage score will earn (the grade may be higher than this): 95%-->4.0, 80%-->3.0, 65%-->2.0, 50%-->1.0. *Any percentage below 50% in the course will result in a grade of 0.0.* This list is the best way to measure your performance throughout the semester. Course grades are posted by the Registrar on-line at sail.oakland.edu after the close of the semester's exam period. Any questions about a course grade must be raised with the instructor through email within 10 work days of its posting by the Registrar.

Make-up Policy: No make-up tests or quizzes will be given. If you miss a test/quiz and have a valid, documented excuse, your grade for the missed test/quiz will be determined by your final exam grade; otherwise the missed test/quiz will be counted as a 0.

Emergency Closing: If the University is officially closed at the time of a scheduled test or examination, it will be given during the next class period when the University reopens. Closures during the final exam period require rescheduling by the Registrar. The Oakland University emergency closing number is 248-370-2000.

Academic Honesty: Cheating is a serious academic crime. Oakland University policy requires that all suspected instances of cheating be reported to the Academic Conduct Committee for adjudication. Anyone found guilty of cheating in this course will receive a course grade of 0.0, in addition to any penalty assigned by the Academic Conduct Committee. Receiving help from someone else or from unauthorized written material during a quiz, test, or final exam is cheating, as is using a calculator as an electronic "crib sheet."

Succeeding in the Course: The Department of Mathematics and Statistics is committed to achieving the goal of an academically sound freshman and sophomore mathematical sciences curriculum in which most conscientious Oakland University students can expect to be successful. We have found that most students work very hard in MTE 2111 and those who do so usually succeed in it. You are encouraged to take advantage of the resources available to you: each other (forming study groups), your instructor's office hours, the Tutoring Center, and the library.

Important Dates: January 17th is the last day for 100% tuition refund, the last day to add a class, and the last day for "no-grade" drops. March 14th is the last day for official withdrawal.

DAILY SCHEDULE
MTE 2111 WINTER 2018
Instructor: J. Mullally

Monday	Tuesday	Wednesday	Thursday	Friday
			Jan. 4 **11-1** Basic Notions	
	Jan. 9 **11-2** Curves, Polygons, and Symmetry		Jan. 11 **11-3** More About Angles	
	Jan. 16 11-4 Geometry in Three Dimensions		Jan. 18 11-4 **Quiz 1**	
	Jan. 23 12-1 Congruence Through Constructions		Jan. 25 12-1, 12-2 Additional Congruence Theorems	
	Jan. 30 12-2 Additional Congruence Theorems		Feb. 1 12-3 Additional Constructions	
	Feb. 6 12-4 Similar Triangles and Other Similar Figures		Feb. 8 **Test 1**	
	Feb. 13 13-1 Translations and Rotations		Feb. 15 13-2 Reflections and Guide Reflections	
	Feb. 20 Winter Recess NO CLASS		Feb. 22 Winter Recess NO CLASS	
	Feb. 27 13-3 Dilations		Mar. 1 13-4 Tessellations of the Plane	
	Mar. 6 13-4 **Quiz 2**		Mar. 8 14-1 Linear Measure	
	Mar. 13 14-2 Areas of Polygons and Circles		Mar. 15 14-3 The Pythagorean Theorem/Distance Formula And Equation of a Circle	
	Mar. 20 14-4 Surface Areas		Mar. 22 14-5 Volume, Mass, and Temperature	
	Mar. 27 **Test 2**		Mar. 29 10-1 Designing Experiments/Collecting Data	
	Apr. 3 10-2 Displaying Data: Part I		Apr. 5 10-3 Displaying Data: Part II	
	Apr. 10 10-4 Measures of Central Tendency and Variation		Apr. 12 10-5 Abuses of Statistics	
	Apr. 17 Review **LAST DAY OF CLASS**		Apr. 19 **NO CLASS**	
	Apr. 24 **FINAL EXAM** **8:00-11:00AM**			

IMPORTANT DATES

January 17   Last day for 100% tuition reimbursement, last day to add a class, last day for "no grade" drops

March 14   Last day for official withdrawal (W grade)