Waterloo-Oxford District Secondary School
Mathematics Department

Student Course Outline: MFM 2PI 2019-2020

Textbook

Foundations of Mathematics 10: McGraw-Hill Ryerson (Replacement Cost $100)

Teacher: Mr. D. VanHouwelingen

Units of Study

Unit	Title	Essential Skills
1	Solving Algebraic Equations	● Solve multi-step first degree equations with integral coefficients. ● Solve first degree equations with fractional coefficients. ● Use substitution to solve for a variable in an equation. ● Solve equations involving proportions algebraically.
2	Graphing Linear Relations	● Determine the significance of m and b in the equation $y = mx + b$. ● Graph lines by hand using table of values, slope and y–intercept or using x and y-intercepts. ● Determine the equation of a line from a graph or information. ● Rearrange the equation of a line from $Ax + By + C = 0$ to $y = mx + b$. ● Use the slope formula to calculate slope.
3	Solving Linear Systems	● Solve a system graphically. ● Solve a system using the method of elimination. ● Solve a system using the method of substitution. ● Write a system of equations from a description of a real world situation.
4	Simplifying Quadratic Expressions	● Expand and simplify the product of two binomials. ● Common factor. ● Factor a difference of squares. ● Factor simple trinomials.
5	Graphing Quadratic Relations	● Graph from a table of values, including sketching the curve or the curve of best fit. ● Identify the key features of the graph of a parabola (from the graph or from the equation). ● Identify the x and y-intercepts from $y = ax^2 + bx + c$ or $y = (x - r)(x - s)$. $y = (x - r)(x - s)$
6	Conversion and Measurement	● Perform everyday unit conversions. ● Calculate the surface area of prisms, cylinders, pyramids, cones and spheres. ● Calculate the volume of prisms, cylinders, pyramids, cones and spheres.
7	Trigonometry	● Use Pythagorean Theorem to solve for unknown sides in right triangles. ● Use trigonometry ratios to determine the measures of sides and angles in right triangles.
8	Year End Review	

Reporting

Progress Reports: November 21 - 2019, February 13 - 2020, April 27 - 2020, and July 6 - 2020
Parent-Teacher Interviews: October 23 - 2019, April 8 - 2020
Parents are encouraged to contact the teacher whenever they have a concern or question.

Evaluation

Content (Assignments, Quizzes, Tests, Cumulative Tests)	70%
In-Class Examination (Attendance Mandatory)	15%
Final Examination (Scheduled in Exam Days)	15%

Supplies - (mandatory for every class and will NOT be supplied by the teacher)

Three ring binder with paper.

Pencils, erasers, pens and ruler.

Chromebook

Scientific Calculator: must have trigonometric functions: (sin, cos, tan).

Please Note: iPods, cell phones and other electronic storage devices may not be used in class or during evaluations as a calculator or for any other purpose unless otherwise stated by the teacher.

Graph paper: you may purchase this from your teacher when graphing units arise

Expectations

Homework: Mathematical skills are developed in the classroom and strengthened with homework. Homework must be completed daily. If you have trouble completing your homework or understanding a topic, see your teacher for extra help. Do not let difficulties drag on until the end of a unit.

Attitude: Come to class with a positive attitude. Be diligent in your work, attentive during lessons, volunteer ideas, ask questions and work quietly and cooperatively. Come prepared with all required materials, be on time and be prepared to work for the entire period. Work to the best of your ability and respect the rights of others to learn.

Absences: The Waterloo-Oxford District Secondary School policy states that all students are expected to attend all classes and arrive on time. Excessive absences may contribute, directly or indirectly, to the student losing the credit. When the bell rings students should be in their seats ready to begin class. If a student arrives late he/she should sit down quietly and join the class.

Missed Assessments:
Students are expected to write missed quizzes/tests on the first day back to school. See your teacher to write your test.
In the event of a missed unit test, the teacher will:
● Speak with the student to negotiate a new test date.
● Communicate with the student's parent or guardian about the missed test.
Tests not completed after the negotiated date will be designated as incomplete. The essential learning skills required for this test will still need to be demonstrated and the teacher will use his/her professional judgment to determine an appropriate mark. Failure to complete non-major quizzes and assignments or missing them for any invalid reason may result in a mark of zero.

Extra Help: I am happy to provide extra help before school, at lunch hour and/or after school. However, you must approach me beforehand to make arrangements.