

York Region District School Board
BUR OAK SECONDARY SCHOOL
Mathematics Department
Course Outline

COURSE:	Mathematics for Work and Everyday Life, Grade 11
CODE:	MEL3E1
TEXTBOOK:	None
CREDIT VALUE:	One
PREREQUISITES:	None
DEPARTMENT HEAD:	B. Merchant
COURSE TEACHERS:	J. Fong

COURSE DESCRIPTION:

This course enables students to broaden their understanding of mathematics as it is applied in the workplace and daily life. Students will solve problems associated with earning money, paying taxes, and making purchases; apply calculations of simple and compound interest in saving, investing, and borrowing; and calculate the costs of transportation and travel in a variety of situations. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

<http://www.edu.gov.on.ca/eng/curriculum/secondary/math1112currb.pdf>

COURSE EXPECTATIONS:

This course is based on curriculum expectations found in the Ontario Curriculum: *Grades 11 and 12 Mathematics 2005 (Revised)*. A copy of this document is available in the Math Office as well as on-line at <http://www.edu.gov.on.ca/eng/curriculum/secondary/math1112currb.pdf>

COURSE TOPICS:

1. Powers and Polynomials
2. Equations and Formulas
3. Relationships and Modelling Relations
4. Linear Relations
5. Measurement and Optimization
6. Geometry

ASSESSMENT AND EVALUATION:

Assessment **for/as** Learning may include, but is not limited to the following: diagnostic assessments, quizzes, conversations, observations, exit cards, cooperative learning strategies.

Assessment **of** Learning may include, but is not limited to the following: critical thinking problem sets, performance tasks, culminating projects, presentations, assignments, tests.

Knowledge & Understanding	20%
Application	20%
Communication	20%
Thinking & Inquiry	10%
Final Summative Assessment	15%
Final Exam	15%

Refer to the *Bur Oak Secondary School Assessment, Evaluation and Communication Policy*

STUDENT WELL BEING:

The Mathematics Department is committed to providing programming which accommodates students of all backgrounds. The department actively promotes classroom environments in which deep learning occurs, and in which the mental health and well-being of students is a priority.

- Teachers as “lead learners” will pay consistent attention to equity, inclusivity and mental health, while overall well-being will be at the forefront of modern learning¹.
- The role of students:
 - Honouring principles of differentiation in instruction, assessment and evaluation.
 - Student voice and involvement in the assessment process with emphasis on equity and inclusivity².
 - Student ownership of learning, using a model of gradual release of responsibility, with awareness of student mental health and well-being³ throughout.

¹Modern Learning is authentic and relevant deep learning that enables learners to create, connect, communicate, and share their learning with the world and be future ready.

²Equity and inclusive education:

- is a foundation of excellence;
- meets individual needs;
- identifies and eliminates barriers;
- promotes a sense of belonging;
- involves the broad community;
- builds on and enhances previous and existing initiatives;
- is demonstrated throughout the system.

³Well-being is a positive sense of self, spirit and belonging that we feel when our cognitive, emotional, social and physical needs are being met. Healthy development of the mind, body and spirit is contingent on balance and interconnectedness.

NOTES:

It is really important to us that you learn the material and that you enjoy and do well in the course. Please make every effort to keep up with the work, to be present and on time for class, and to participate every day.

Please bring a pencil, an eraser, a scientific calculator, a ruler, a protractor, a binder with lined paper and graph paper, and a textbook to class with you every day.

You will get homework on a regular basis. If you are having trouble with the homework or with ideas covered in class, please see your teacher for help.

If you know that you are going to be away on the day of an assessment, you must make arrangements prior to the assessment. If you are ill on the day of an assessment, one of your parents must leave a message with your teacher (905-202-1234) and provide verification of illness. You should be prepared to complete the assessment on the day you return.

Enjoy!