Foundations of College Mathematics, Grade 11
MBF3C1

Course Description:

This course enables students to broaden their understanding of mathematics as a problemsolving tool in the real world. Students will extend their understanding of quadratic relations; investigate situations involving exponential growth; solve problems involving compound interest; solve financial problems connected with vehicle ownership; develop their ability to reason by collecting, analysing, and evaluating data involving one variable; connect probability and statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical skills as they solve problems and communicate their thinking.

Level:	College
Credit Value:	1.0
Pre-requisite:	MFM2P1
Department:	Mathematics

Course Fees:	None

Textbooks & Resources:

- Growing Success: Assessment, Evaluation and Reporting in Ontario Schools
- The Ministry Curriculum, Grades 11 & 12: Mathematics, 2007 (revised)
- TIPS4RM, Ontario Mathematics Coordinators Association
- Pearson Math 11 (Replacement Cost: $85.00)

Course Evaluation: Student Evaluation consists of three components…

1) Learning Skills & Work Habits:

Students are evaluated on 6 Learning Skills & Work Habits. They are:
- Responsibility
- Organization
- Independent Work
- Collaboration
- Initiative
- Self-Regulation

These six attributes are evaluated on a scale of Excellent (E), Good (G), Satisfactory (S) & Needs Improvement (N) and reported on the report card. They **are not** included in the course mark, unless specified in the curriculum expectations.

2) Term Mark (Assessment of Learning):

Student performance standards for knowledge and skills are described in the curriculum Achievement Chart. The curriculum is assessed in four categories:

- Knowledge and Understanding — 35%
- Thinking and Inquiry — 15%
- Communication — 15%
- Application — 35%

Evaluation of these four categories generates the term mark. The term mark accounts for 70% of the final mark.

It is the student's responsibility to submit evidence of learning.

3) Final Evaluation (Assessment of Learning):

The final evaluation, administered at or towards the end of the course is based on the evidence shown to the right. The final evaluation accounts for 30% of the final mark.

The final evaluation consists of:

Summative Evaluation	15 %
Exam	15 %

Final Mark = 70% Term Mark + 30% Final Evaluation

For a detailed description on Course Evaluation, see "How Did I Get That Mark!" at www.satec.on.ca

Course Conduct Policies: See Student Agenda.

Please retain this page in the front of your notebook for future reference.

Scarborough Academy for Technology, Environment & Computers @ WA Porter CI

40 Fairfax Crescent, Scarborough, Ontario, M1L 1Z9
Phone: (416) 396-3365 Fax: (416) 396-3371

Foundations of College Mathematics, Grade 11
MBF3C1

Course Outline:

Unit	Description	Approximate Length	Major Unit Evaluation
Introductory Unit	Review from grades 9 and 10	1 week	none
Trigonometry	Solve problems involving trigonometry in acute triangles using the sine law and the cosine law, including problems arising from real-world applications.	2 weeks	assignments, tests, and quizzes
Quadratic Relations	Make connections between the numeric, graphical, and algebraic representations of quadratic relations, and use the connections to solve problems.	3.5 weeks	assignments, tests, and quizzes
Statistics	Solve problems involving one-variable data by collecting, organizing, analysing, and evaluating data.	2 weeks	assignments, tests, and quizzes
Probabilities	Determine and represent probability, and identify and interpret its applications.	2 weeks	assignments, tests, and quizzes
Exponential Relations	Demonstrate an understanding of exponents, and make connections between the numeric, graphical, and algebraic representations of exponential relations; describe and represent exponential relations, and solve problems involving exponential relations arising from real-world applications.	2.5 weeks	assignments, tests, and quizzes
Personal Finance	Compare simple and compound interest, relate compound interest to exponential growth, and solve problems involving compound interest; compare services available from financial institutions, and solve problems involving the cost of making purchases on credit; interpret information about owning and operating a vehicle, and solve problems involving the associated costs.	3 weeks	assignments, tests, and quizzes
Geometry	Represent, in a variety of ways, two-dimensional shapes and three-dimensional figures arising from real-world applications, and solve design problems.	2 weeks	assignments, tests, and quizzes
Summative	An overall summative project accountable for 15% of the course grade.	3 days	Project

Note: The order of the units of study may change due to student needs and resources available during the course.

Foundations of College Mathematics, Grade 11
MBF3C1

General Information:

Mathematics continually builds on previous lessons. Hence, daily attendance is important. Students are responsible for catching up on missed lessons and work.

It is expected that all students will write tests as a class group. If a student is unable to write the evaluation with the class, then the student must inform the teacher at least two school days in advance of the test so that alternate arrangements can be made.

Students who are absent on the day of the test due to illness or a family emergency must have their parents phone the math office at 416 396-3365 x20245 on the day of the test explaining why they will be absent. (Doctor's notes will be required from students who miss more than one scheduled test.) Alternate arrangements will be made for these students to write the test.

Students missing their tests or assignment deadlines due to unexplained absences will receive a mark of zero.

For more information on the missed test/assignment policies, please see the agenda.

This course meets Environment and ICT SHSM program requirements.