**Our Lady of Lourdes Catholic High School**

**Course Overview**

**COURSE TITLE:** Foundations for College Mathematics

**COURSE CODE**: MBF3U

**CREDIT VALUE**: 1.0

**SCHOOL YEAR:** 2013 Semester 2

**TEACHER:** Ms. T. McKay

**COURSE DESCRIPTION**:

This course enables students to broaden their understanding of mathematics as a problem-solving 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, analyzing and evaluating data involving one variable; connect probability to statistics; and solve problems in geometry and trigonometry. Students will consolidate their mathematical thinking skills as they solve problems and communicate their thinking.

**HOW THIS COURSE SUPPORTS THE ONTARIO CATHOLIC GRADUATE EXPECTATIONS**:

This course encourages the Catholic learner to develop his/her God-given gifts and abilities to promote growth toward personal responsibility in preparation for a chosen career path. Throughout this course, emphasis should be placed on moral, ethical, and realistic decision-making in an effort to build responsible citizenship. The classroom environment should instill a spirit of cooperation, rather than competition amongst students, and foster a collaborative sense of community. This course provides many opportunities for students to work effectively as interdependent team members and to acknowledge and respect others for their opinions. Please see the Course Calendar / Agenda Book for a listing of the Ontario Catholic Graduate Expectations.

**OVERALL EXPECTATIONS:**

**Ministry Web site**

The overall course expectations can be found on the ministry website:

http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html

**UNIT TITLES: (Sequence and Approximate Time)**

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| --- | --- |
| Trigonometry | 10 Periods |
| Probability | 9 Periods |
| One Variable Statistics | 12 Periods |
| Quadratic Relations | 9 Periods |
| Exponents | 9 Periods |
| Compound Interest | 7 Periods |
| Personal Finance | 11 Periods |
| Geometry | 5 Periods |
| Course Review and Summative Culminating Activity | 10 Periods |

**EVALUATION**:

Evaluation is based on overall expectations of the course. These can be found at http:www.edu.gov.on.ca/eng/curriculum/secondary/subjects.html

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| --- | --- |
| **COURSE GRADE WEIGHTING:**  Term Work 70%  Final Assessment 30% | **CATEGORY WEIGHTING:**  Knowledge and Understanding 40%  Application 40%  Making Connections 10%  Communication 10% |

Students will be assessed using a variety of techniques including: quizzes, unit tests, performance tasks, assignments, culminating activities and a formal final exam.

**\*Students are encouraged to keep track of their evaluations on the mark tracking sheet available online.**

**LATE/MISSED EVALUATI0NS:**

Students are expected to complete all evaluation activities. Labs and assignments will have a clearly defined “window of opportunity” for submission. The given “due date’ is the last day assignments may be submitted.

*LATE ASSIGNMENTS WILL NOT BE ACCEPTED WITHOUT A LEGITIMATE REASON AND A NOTE OF EXPLANATION FROM PARENTS/GUARDIANS!*

**Non-Legitimate Reasons:**

Non-legitimate reasons include skipping class on the date an evaluation is to be submitted, or failing to complete assignments because of poor time management skills.

Failure to complete assessment and evaluation activities reduces the body of evidence upon which the teacher can evaluate the student achievement of curriculum expectations and could jeopardize the granting of a credit for the course.

**CHEATING AND PLAGIARISM:**

Please see information regarding this topic in the Student Handbook. Students have the responsibility to ensure that all work submitted is their own or appropriately attributed to its source.

**TEXT BOOK:**

Nelson Physics 11 University Preparation has an approximate replacement value of **$150.**

**GENERAL COURSE INFORMATION**:

* Learning Skills: regular attendance, working independently, teamwork, organization, work habits, initiative, risk-taking, time-management, perseverance, questioning, curiosity and a love of learning are all essential to success in this course.
* A scientific calculator and graph paper are required.
* Graphing calculator number: \_\_\_\_\_\_\_\_\_\_ Textbook number: \_\_\_\_\_\_\_\_\_\_

# APPROPRIATE USE OF GRAPHING CALCULATORS:

Students will be provided with graphing calculators to be used at school only. In keeping with Board Policy on Telecommunications: Any malicious attempt to harm or destroy the calculator is prohibited and may result in financial compensation and/or other disciplinary action consistent with the School Code of Behaviour, Board Policy and/or the Education Act. Likewise, **theft or loss, through negligence, of the calculator will result in a cost replacement by the student/parents of $150.00.**