**Our Lady of Lourdes Catholic High School**

**Course Overview**

**COURSE TITLE:** Mathematics for College Technology

**COURSE CODE**: MCT 4C

**CREDIT VALUE**: 1.0

**SCHOOL YEAR:**  2012 - 2013 Semester 1

**TEACHERS :** Mrs. M. Foulger

**COURSE DESCRIPTION**:

This course enables you to extend your knowledge of functions. You will investigate and apply properties of polynomial, exponential, and trigonometric functions; continue to represent functions numerically, graphically, and algebraically; develop facility in simplifying expressions and solving equations; and solve problems that address applications of algebra, trigonometry, vectors, and geometry. You will reason mathematically and communicate your thinking as you solve multi-step problems. This course prepares you for a variety of college technology programs.

**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.

**UNIT TITLES:** Unit 1 Exponential Equations 13 periods

Unit 2 Polynomial functions 14 periods

Unit 3 Trig and sinusoidal functions 14 periods

Unit 4 Vectors and geometry 24 periods

Unit 5 Summative 5 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%  Thinking 10%  Communication 10% |

Students will be assessed using a variety of techniques including: unit tests, performance tasks, assignments, investigations,

culminating activities and a formal final exam.

**LATE/MISSED EVALUATI0NS:**

Students are expected to complete and/or submit all assessment and evaluation activities on the date determined by the teacher. **The teacher (and/or principal when necessary) will decide if a late activity will be accepted for evaluation purposes or only for formative assessment with no level/mark recorded for grading.**

**CHEATING AND PLAGIARISM:**

Please see information regarding this topic in the Student Handbook.

**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, 3-ring binder, lined paper, graph paper, and dividers 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.**

**PARENT/GUARDIAN/STUDENT SIGNATURES:**

My signature below indicates that I have read and understood the course overview. I also understand the implications of the technology agreement outlined above.

Student Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Parent / Guardian Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**This signed course overview document must be kept in the student notebook.**

If you have any questions or concerns please do not hesitate to contact me at the school, 519 836 2170 x316.

**ASSESSMENT RESULTS:**

Each student is asked to record his/her assessment results in the chart below. Parents/Guardians are encouraged to refer to this chart as one method of monitoring the student’s progress. All unit tests/quizzes should be corrected by the student and kept in the student’s notebook.

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| **Date** | **Item** | **Knowledge/ Understanding** | **Application** | **Thinking** | **Communication** |
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