

# Catholic District School Board of Eastern Ontario

## Notre Dame Catholic High School

<b>COURSE TITLE:</b>	Principles of Mathematics, Grade 10, Academic
<b>COURSE CODE:</b>	MPM 2D
<b>LEVEL OF DIFFICULTY:</b>	Academic
<b>AREA OF STUDY:</b>	MATHEMATICS
<b>SUGGESTED PREREQUISITE(S):</b>	Grade 9 Mathematics program Academic
<b># OF SCHEDULED HOURS</b>	110
<b>CREDIT VALUE:</b>	1
<b>FACILITATOR(S):</b>	Glen Cordick and Katie Ennis
<b>WRITER(S):</b>	Math Department
<b>DATE OF PREPARATION:</b>	February, 2007
<b>MINISTRY GUIDELINES:</b>	The Ontario Curriculum, Grades 9 and 10 – Mathematics - Revised
<b>TEXTS:</b>	Mathematics 10 (ITP Nelson)

### COURSE DESCRIPTION:

This course enables students to broaden their understanding of relations, extend their skills in multi-step problem solving, and continue to develop their abilities in abstract reasoning. Students will pursue investigations of quadratic functions and their applications; solve and apply linear systems; solve multi-step problems in analytic geometry to verify properties of geometric figures; investigate the trigonometry of right and acute triangles; and develop supporting algebraic skills. (Ministry Guidelines).

### UNITS OF STUDY:

(not necessarily in order)

1. Quadratic functions
2. Analytic Geometry
3. Trigonometry

### COURSE EXPECTATIONS

By the end of this course, students will:

- solve quadratic equations;
- determine, through investigation, the relationships between the graphs and the equations of quadratic functions;
- determine, through investigation, the basic properties of quadratic functions;
- solve problems involving quadratic functions.
- model and solve problems involving the intersection of two straight lines;
- solve problems involving the analytic geometry concepts of line segments;
- verify geometric properties of triangles and quadrilaterals, using analytic geometry.
- develop the primary trigonometric ratios, using the properties of similar triangles;
- solve trigonometric problems involving right triangles;
- solve trigonometric problems involving acute triangles.

## How This Course Supports the Ontario Catholic School 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 will be placed on moral, ethical, and realistic decision-making in an effort to build responsible citizenship. The classroom environment will instill a spirit of cooperation, rather than competition amongst students, and will foster a collaborative sense of community. This course provides many opportunities for students to work effectively as interdependent team members and to acknowledge others for their opinions. (Course Profile)

### COURSE EVALUATION:

#### Course Assessment

Student Achievement will be based on the achievement chart categories outlined below and in individual demonstration for specific expectations. Achievement chart categories will be posted in the classroom for greater awareness and understanding of assessment. All major assignments will be evaluated using levels. Grades will be determined using the students' most consistent and most recent level of achievements. For the purposes of reporting, the percentages grade range will correspond to the following levels as defined by the Catholic District School Board of Eastern Ontario:

Level	Mark Code	Level	Mark Code	Level	Mark Code	Level	Mark Code
4++	98/ 100						
4+	94	3+	79	2+	69	1+	59
4	86/ 90	3	75	2	65	1	55
4-	82	3-	72	2-	62	1-	52

The achievement chart identifies four categories of knowledge and skills in SUBJECT: Knowledge, Thinking and Inquiry, Communication and Application. The achievement chart provides a standard province-wide method for teachers to use in assessing and evaluating their students' achievement. Each achievement chart has descriptions of the levels of achievement for each of the four categories of knowledge and skills. Level three is the provincial standard; level four indicated a level of aptitude beyond the standard; level two indicates the student is slightly below provincial standard; and level one indicates a limited understanding of material. The achievement chart helps determine, towards the end of the course, the student's most consistent level of achievement of the curriculum expectations as reflected in his or her course work.

#### *Summative Evaluation (70%)*

Knowledge and Understanding

Thinking and Inquiry

Application

Communication

All categories will be weighted equally

#### *Final Assessment Weighting (30%)*

Cumulative Assessment 15%

Final Exam 15%

## **POLICIES**

### **Late Assignment**

If a student fails to submit a summative assignment on the due date they will receive a completion contract. They will renegotiate a new due date with the subject teacher. The student will have their parent sign the contract and return it to the teacher the next day. If the contract is not returned, the classroom teacher will phone the parent. If the assignment gets submitted on the new date, the student will receive a grade. If not, the student will report to study hall and the parent will be notified. If completed at a passable level, the assignment will receive a “pass”.

### **Academic Dishonesty**

If a student cheats on a test or plagiarizes a summative assignment, they will have to re-do the work in a supervised setting at their teacher’s convenience. The parent will be notified and the vice-principal will create a file to track the incident. Should a second incident occur in any class, the student will receive a suspension and a grade of zero for that assignment.

### **Culminating Activity**

A Culminating Activity provides an opportunity for students to synthesize and demonstrate the full breadth of their understanding of overall expectations. The task is completed over more than one class period, involves all four categories of the achievement chart, and is authentic and related to the “real world”. Student work to be assessed must demonstrate individual achievement.

***MPM 2D CLASSROOM EXPECTATIONS:***

1. Adhere to all school policies including attendance, dress, punctuality and behaviour.
2. You are responsible to bring the following materials to EVERY CLASS:

binder with extra paper  
textbook

pen and pencil (with eraser)  
anatomy colouring book sections

3. I expect notebooks and textbooks to be organized and free from graffiti. All work should be clearly titled and dated. Page numbers and question numbers should be clearly indicated.
  4. When homework is assigned it is to be completed for the next class – no excuses. If you foresee difficulties, you are required to come for extra help. I am available for extra help before and after school. I encourage you to ask questions.
  5. I do not tolerate copying in any form. A mark of zero will be assigned for copied work.
  6. If you are absent, YOU are responsible to catch up on work missed. Absence for a test/quiz/performance task results in a zero, unless proper documentation is provided. I must be notified ahead of time for any exceptional circumstances causing you to be absent on these days.
  7. RESPECT, RESPECT, RESPECT! Respect your classmates and your teacher. Unacceptable behavior will not be tolerated. Respect others' property. Return borrowed materials, clean up after yourself, do not deface property. Respect yourself. Be responsible and organized.
  8. Students may, for legitimate reasons, negotiate an extension or due date change with the teacher prior to the original due date. Approval for such a change will be at the discretion of the teacher. Computer printing problems will not be accepted as legitimate reasons for late assignments. If such a situation should occur the student must either present a hand written assignment or a computer disc that the teacher can read on a computer compatible with the Notre Dame computer system. This must be done on the day the assignment is due. This policy does not include renegotiation of culminating activity due dates.
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I, \_\_\_\_\_, have read and understand the above expectations. I  
Print student's name  
agree to follow these expectations. If I do not, I realize my parents will be notified and some  
form of compensation will be required (i.e. detention).

\_\_\_\_\_  
Student's signature

\_\_\_\_\_  
Parent's signature

Guardian Daytime Phone number: \_\_\_\_\_

Comments:

# Policy for Assignment Deadlines

Under the new policy, there will be two procedures for students unable to meet assignment deadlines:

## 1) Pre-Approved Extension Policy

Students who feel they will be unable to meet an assignment deadline will need to negotiate a new deadline under the following terms:

- a) The student must complete a Pre-Approved Late (P.A.L.) form. This **MUST** include a parent signature as well as email and phone contact information. These forms are available on the school website, in student services and in the main office.
- b) The student must demonstrate they have some components of the assignment complete/attempted.
- c) The student must present the first two items to the classroom teacher a minimum of **one** day prior to the due date<sup>1</sup>.

Once the student has produced his/her signed contract as well as the attempt at the assignment, the teacher and student will negotiate a new deadline that will allow the student time to complete the assignment and ensure submission in a timely fashion. The teacher will then make parent contact (email or phone) to communicate the new deadline. If the assignment is submitted on the agreed upon date, full marks will be given. If a student fails to submit the assignment on the agreed upon date, **(2) Late Assignment Policy** will apply.

<sup>1</sup> Failure to negotiate a Pre-Approved Extension (one day prior) due to excused absences for sports, extra-curricular activities, doctor's appointments, etc. will result in a Pass/Fail on the assignment should the deadline be missed. Students in these circumstances will need to negotiate prior to missing class. In the case of illness on the negotiation day or the due date, the parent must **directly** contact the classroom teacher to make arrangements.

## 2) Late Assignment Policy

If a student misses an assignment deadline without negotiating a Pre-Approved Extension or defaults on an extended deadline, the following will apply.

They will be given a Pass (P), Fail (F), or Incomplete (I) based on the work they submit. A "P" will be given if the submitted work meets curriculum expectations. The "P" will not prevent a student from earning his/her credit. However, having more than one "P" in a single course will result in a lower overall grade. An "F" will be given if the work submitted does not meet curriculum expectations. An "I" will be given if the assignment is not submitted at all. Both an "F" and an "I" may put a student's credit at risk.

A student who fails to meet a submission deadline will be required to work on the incomplete assignment in **mandatory** Lunch Study Hall (Rm. 144). Study Hall will begin the day after the assignment was due and the work must be submitted within one week of the original (or renegotiated) due date, at the discretion of the teacher. It is expected that the student will continue to work on the assignment outside of school hours, where appropriate, in addition to lunch study hall in order to meet the new deadline. At the end of the week, the student will receive an "I" if nothing is submitted or an "F" if what they submit still does not meet curriculum expectations. If the assignment meets curriculum expectations, the student will receive a "P"

which cannot prevent them from earning the credit. If a student skips study hall, they will automatically be assigned an “I” and the parent will be contacted by the Student Success Team.

## ***CLASSROOM EXPECTATIONS:***

2. Adhere to all school policies including attendance, dress, punctuality and behaviour.
  2. You are responsible to bring the following materials to EVERY CLASS:

binder with extra paper	pen and pencil (with eraser)
covered textbook	calculator
centimeter ruler	
  9. I expect notebooks and textbooks to be organized and free from graffiti. Textbooks should be covered within the first week of school. All work should be clearly titled and dated. Page numbers and question numbers should be clearly indicated.
  10. When homework is assigned it is to be completed for the next class – no excuses. If you foresee difficulties, you are required to come for extra help. I am available for extra help before and after school. I encourage you to ask questions.
  11. I do not tolerate copying in any form. A mark of zero will be assigned for copied work.
  12. If you are absent, YOU are responsible to catch up on work missed. Absence for a test/quiz/performance task results in a zero, unless proper documentation is provided. I must be notified ahead of time for any exceptional circumstances causing you to be absent on these days.
  13. RESPECT, RESPECT, RESPECT! Respect your classmates and your teacher. Unacceptable behavior will not be tolerated. Respect others' property. Return borrowed materials, clean up after yourself, do not deface property. Respect yourself. Be responsible and organized.
  14. Students may, for legitimate reasons, negotiate an extension or due date change with the teacher prior to the original due date. Approval for such a change will be at the discretion of the teacher. Computer printing problems will not be accepted as legitimate reasons for late assignments. If such a situation should occur the student must either present a hand written assignment or a computer disc that the teacher can read on a computer compatible with the Notre Dame computer system. This must be done on the day the assignment is due. This policy does not include renegotiation of culminating activity due dates.
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I, \_\_\_\_\_ (student) have read and understood the expectations outlined in the MPM 2D Outline.

Parents/Guardians: Please be aware of the expectations set for your son/daughter in this course. If you have any questions, please do not hesitate to contact me at Notre Dame: 253-4700.

Sincerely, G. Cordick

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

Date: \_\_\_\_\_

Daytime Phone Number: \_\_\_\_\_

Comments:

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### Notre Dame Catholic High School Extension Contract

SAMPLE

STUDENT NAME \_\_\_\_\_

COURSE \_\_\_\_\_

The following work has not been handed in \_\_\_\_\_

The original due date \_\_\_\_\_

New date for submission \_\_\_\_\_

*\*Once this new date is negotiated, the student agrees to submit this work on that date to receive a grade of zero or the student will attend study hall until the assignment is completed at a passable level.*

*\*The student understands that failure to hand in any of the summative assignments in this course will result in the inability to demonstrate some course expectations, which may result in the loss of credit.*

STUDENT SIGNATURE \_\_\_\_\_

TEACHER SIGNATURE \_\_\_\_\_

PARENT/GUARDIAN SIGNATURE \_\_\_\_\_