

IB MATH STUDIES FALL 2011

INSTRUCTOR:

Mrs. Mary K. Lyddane
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I am available for extra help before school, at lunch by appointment and after school Tuesday, Wednesday, Thursday and Friday.

COURSE DESCRIPTION:

Mathematical Studies, available as a standard level (SL) subject only, caters to students with varied backgrounds and abilities. Students embarking on this course need to be equipped with fundamental skills and a rudimentary knowledge of basic processes. The nature of mathematical studies is such that it concentrates on mathematics which can be applied to contexts related to other curriculum subjects, to common general world occurrences and to topics that relate to home, work and leisure situations. The Internal Assessment project provides an opportunity for the student to undertake an investigation of a mathematical nature in the context of another subject in the curriculum, a hobby or interest of his/her choice using skills learned before and during the mathematical studies course.

IB EXAM DATES:

Thursday May 3– Paper 1 (1.5 hour, afternoon session)

Friday May 4– Paper 2 (1.5 hours, morning session)

GRADE CALCULATION:

Grades will be calculated based on a cumulative point system.

- Assessments will consist of quizzes, projects and tests. Quizzes may be reassessed at the discretion of the teacher.
- Being absent the day before a test does not excuse you from taking the test on the originally scheduled day.
- Tests missed due to excused absences **must** be made up the first day you are back in school at lunch or after school. The responsible student will email me during their absence to make arrangements.
- Assignments relating to the Internal Assessment will vary in points from 5-20 points. Assignment sheets will be distributed outlining each assignment.
- Homework will be checked sporadically and graded on a two point scale.
- IB practice problem sets and practice tests will be assigned, collected, and graded as we approach the exam date.

REQUIRED MATERIALS:

You **MUST** keep a notebook for math Studies. I ****highly**** recommend you keep all formal assessments in a safe place, i.e. a separate folder at home, once they have been returned to you. They will be an invaluable resource when reviewing for the final and IB exam. Everyday you are required to have a graphing calculator, notebook, formula sheet, and **blue/black pens** (IB requires that exams must be written in blue or black ink).

INTERNAL ASSESSMENT DEADLINES:

There is no excuse for missing a deadline. If you're sick, fax it to the main office or have a parent, sibling, or trusted friend bring it in. Any assignment not received prior to the late bell for your class period will be considered late and substantial points will be taken off.

- Topic: TBA 1st Quarter
- Evidence of research: TBA 1st Quarter
- Statement of task and actual data to be used for project: TBA (Monday after Thanksgiving)
- Rough draft: (first day of second semester)
- Final Internal Assessment Due: (Tuesday after President's Day weekend)

COURSE OUTLINE:

First Semester:

- Unit I: Statistics and Probability– IB Topics 3 and 6
- Unit II: Trigonometry and Geometry – IB Topic 5

Second Semester:

- Unit III: Numbers and Algebra – IB Topic 2
- Unit IV: Sets and Logic – IB Topic 3
- Unit V: Functions – IB Topic 4
- Unit VI: Financial Mathematics – IB Topic 8
- Unit VII: Introductory Differential Calculus – IB Topic 7
- Comprehensive IB exam review

ACADEMIC DISHONESTY:

Examples of academic dishonesty include, but are not limited to, the following: copying homework, giving test/quiz information to a student in another class, using unauthorized aides (i.e. "cheat sheets"), giving or receiving answers or information during a test or quiz. Any student who engages in these activities will receive a failing grade (0%) and a referral to their administrator.

Taken from Article 14 of the Vade Mecum: Procedures Manual for IB Coordinators and Teacher: Teachers are expected to try to ensure that work submitted by a candidate for assessment is the candidate's own work and to report any cases of suspected malpractice by candidates to the IB Coordinator.:

This applies to both written work and oral presentations. Examples of academic dishonesty include, but are not limited to, the following: the willful giving or receiving of an unauthorized text, unfair, dishonest, or unscrupulous advantage in academic work over other students using fraud, duress, deception, theft, trickery, talking, signs, gestures, copying, or any other methodology.