The High School for Enterprise Business and Technology

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HSforEBT

SYLLABUS FOR TERM 1 (FALL 2025)

Course	Teacher Contact Information	Resources
Course Name: IB Math HL 2 Course Code: MRS43B Duration: 45 minutes Frequency: M-T-W-Th-F	Name: Ms. Espinosa Room: 436 Email: Mespinosa@schools.nyc.gov	Website: K478.org Textbook: Mathematics & Applications HL Google Classroom Code:

Course Description

📐 **IB MATH HL 2**
Mathematics: Applications & Interpretation HL is designed for students who are strong in mathematics but more interested in applying mathematical reasoning to real-world contexts. It emphasizes modelling, statistics, probability, and using technology (graphical display calculators, statistical software) to explore data-rich situations. The course includes content in calculus, but balanced with other applied topics.
✏️ Solve problems using logic and connect concepts to real-world applications.

Curriculum Overview

Unit 1: Introduction to Differential Calculus
Unit 2: Rules for Differentiation
Unit 3: Properties of Curves
Unit 4: Applications of Differential Calculus
Unit 5: Integration
Unit 6: Applications of Integration
Unit 7: Descriptive Statistics
Unit 8: Probability
Unit 9: Discrete Random Variables
Unit 10: Continuous random variables

Classroom Values

📐 **IB Math HL** demands your dedication and focus as we prepare for the IB Math exam at the end of the year. Together, we'll build a classroom where everyone can grow, feel supported, and rise to meet every goal!

💙 **Respect & Support**: Treat everyone with kindness and believe in your own success and your classmates'.
🤝 **Stronger Together**: Value every contribution and achieve more as a team.
📘 **Shared Responsibility**: Follow our rules and routines to keep our classroom fair, focused, and productive.
💡 **Lead with Compassion**: Encourage first and correct with care.
🏆 **Our Goal**: To develop investigative, problem-solving and modelling skills.

Grading Policy

🎨 Big 4 Classroom Expectations & Critical 4 Assignments (C4A)

📝 Assessment
Your marking period grade is based on the Critical 4 assignments (C4A). Assignments are graded, and reinforcement opportunities may be offered if needed.

💬 Engagement
Complete classwork, homework, and collaborate to prepare for and succeed on the C4A.

💡 Mastery/Accountability
Complete projects and Practice Packets to strengthen proficiency and, if needed, request a reinforcement opportunity to demonstrate mastery.

✅ Internal Assessment/Exploration
Mathematical exploration: students pick a topic, do original exploration, modeling, write up.

Important Note: Dates may be adjusted due to school events, such as required fire drills and other curricular activities.

Make-up Policy

- If you miss a deadline or can't finish C4A, let me know and schedule a meeting to discuss next steps or request a make-up opportunity.

Required Materials

- Loose leaves
- Notebook
- Pen/pencil
- Calculator
- Graph Paper
- Colored Pencils

Academic Integrity

🔑 All work should reflect your own effort and understanding. Assignments are designed to develop your skills and deepen your knowledge. **Demonstrate honesty and independent effort** and use opportunities to revise and improve your work to grow as a confident learner.

Acknowledgment Form

Please review, sign, and complete the information below:

__ I have read and understand the expectations for success in this class.

Student Signature: _____

Parent/Guardian Signature: _____

Parent/Guardian Contact Information: _____

If you have any questions or would like to share information about yourself as a student and learner, please use the space below. Parents/guardians are also welcome to include any questions or additional details.

*This syllabus can also be found on K478.org