



### COURSE STANDARDS AND PROCEDURES

**COURSE:** Differential Calculus sec. 5

**MYP AIMS ADDRESSED BY THE COURSE:** What are the aims/objectives of the course? How do these relate to the MEQ competencies?

| MYP Course Aims                                                                                                                                                    | MEQ Course Objectives        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <ul style="list-style-type: none"><li>• Enjoy mathematics, develop curiosity and begin to appreciate its elegance and power</li></ul>                              | Solves a situational problem |
| <ul style="list-style-type: none"><li>• Develop an understanding of the principles and nature of mathematics</li></ul>                                             | Uses mathematical reasoning  |
| <ul style="list-style-type: none"><li>• Communicate clearly and confidently in a variety of contexts and develop logical, critical and creative thinking</li></ul> |                              |

**APPROACHES TO LEARNING:** Which ATLs will be addressed in the course and how? How will the content be delivered to the students?

Critical thinking skills

- Analyzing and evaluating issues and ideas
- Practice observing carefully in order to recognize problems
- Gather and organize relevant information to formulate an argument
- Practice visible thinking strategies and techniques
- Utilizing skills and knowledge in multiple contexts
- Apply skills and knowledge in unfamiliar situations
- Transfer current knowledge to learning of new technologies

Warm up questions allow students to reflect on previous classes concepts and learning experiences.

- Demonstrate proper mathematical notation within explanation of concepts.
- Formative assessments (pop quizzes, quizzes, homework assignments)
- Group discussions when faced with unfamiliar situations; students discuss appropriate strategies and situations.
- Students combine and apply their mathematical knowledge when solving summative Situational Problems.

**IB MYP LEARNER PROFILE ATTRIBUTES:** Identify which profile attributes will be addressed in the

course and how.

Communicators, Inquirers/Thinkers, Caring.

**FORMATIVE & SUMMATIVE ASSESSMENT INCLUDING MYP ASSESSMENT:**

| <b>IBMYP course objectives</b>                | <b>Examples of assessment/feedback both formative and/or summative.</b> | <b>Term evaluated</b> |
|-----------------------------------------------|-------------------------------------------------------------------------|-----------------------|
| A: Knowing and understanding                  | Tests, Quizzes, In-class Assignments                                    | <b>1-2-3</b>          |
| B: Investigating patterns                     | Tests, Quizzes, In-class Assignments                                    | <b>1-2-3</b>          |
| C: Communicating                              | Tests, Quizzes, In-class Assignments                                    | <b>1-2-3</b>          |
| D: Applying mathematics in real-life contexts | Tests, Quizzes, In-class Assignments                                    | <b>1-2-3</b>          |

