**École Secondaire LAURIER MACDONALD High School**
**7355 Viau, Saint-Leonard H1S 3C2**
**Tel: 514-374-6000 Fax: 514-374-7220**

## COURSE STANDARDS AND PROCEDURES

**COURSE**:

Secondary 5 Physics, 553-504

**CLASS RESOURCES:** Teacher notes and Practical Guide.

**COURSE DESCRIPTION**: This course is designed for those wishing to enter CEGEP in the Pure and Applied or Health Science Programs. Students study optics, mechanics, kinematics, dynamics and energy. The interrelationship between Science, technology and society is stressed throughout the program. The secondary 4 prerequisites are Scientific Math and Environment Science.

Students will become familiar with standard laboratory practices and be encouraged to apply theoretical concepts in a practical way through lab work and hands-on activities. Students understand that science is a process as well as a body of knowledge.

**MYP AIMS ADDRESSED BY THE COURSE**:

| MYP Course Aims | MEES Course Objectives |
|---|---|
| Develops skills to design and perform investigations, evaluate evidence, and reach conclusions | Competency 1: Seeks answer or solutions to scientific or technological problems |
| Cultivate analytical inquiring and flexible minds that poses questions, solves problems, construct explanations, and judge arguments. | Competency 2: Makes the most of his/her knowledge of science and technology |

**FUNDAMENTAL IB CONCEPTS**:

- Holistic learning: Mathematics is in each of the units covered in this course.

- Communication: Students will conduct labs and complete hands-on activities and assignments in which they will have to use the appropriate scientific language.

**KEY INSTRUCTIONAL STRATEGIES/APPROACHES TO LEARNING**:

- The ATLs that will be focused on is critical thinking. Students will analyze and evaluate issues and ideas by gathering and organizing relevant information to formulate an argument and interpret data to draw reasonable conclusions and generalizations. This will be achieved by incorporating various inquiry-based activities throughout the year.

**IB MYP LEARNER PROFILE**:

- Knowledgeable: During the inquiry-based activities, students will be asked to use their previous knowledge of different scientific concepts in order to solve a new problem.

- Inquirers: Students will develop their skills for inquiry.

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

<table>
<tr><th colspan="3">Term 1</th></tr>
<tr><td>Competencies targeted</td><td>Evaluation methods</td><td>Timeline</td></tr>
<tr><td>Competency 1: Theory; 60%<br><br>Competency 2: Practical; (Labs )40%</td><td>May include, but not limited to:<br>-Quizzes<br>-Tests<br>-Lab reports<br>-Assignments<br>-Homework</td><td>To finish by November 6th</td></tr>
<tr><td>Communication to students and parents</td><td colspan="2">Materials required</td></tr>
<tr><td>Curriculum Night<br><br>Progress report<br><br>Report card<br><br>Verbal/Written communication, telephone/email may be on an as needed basis</td><td colspan="2">Pens/Pencils/Highlighters<br>-Notebook/Loose leaf and binder<br>-Scientific calculator<br>-Practical Guide</td></tr>
<tr><td>IB MYP Criterion</td><td colspan="2">Examples of assessment/feedback both formative and/or summative</td></tr>
<tr><td>• A: Knowing and understanding<br><br>• B: Inquiring and designing<br><br>• C: Processing and evaluating<br><br>• D: Reflecting on the impacts of science</td><td colspan="2">Assignments and test</td></tr>
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| Term 2 | | |
|---|---|---|
| *Competencies targeted* | *Evaluation methods* | *Timeline* |
| Competency 1: Theory; 60%<br><br>Competency 2: Practical; (Labs) 40% | May include, but not limited to:<br>-Quizzes<br>-Tests<br>-Lab reports<br>-Assignments<br>-Homework | To finish by:<br>February 6th |
| *Communication to students and parents* | *Materials required* | |
| Report card in February<br><br>Verbal/Written communication, telephone/e-mail may be on an as needed basis | Pens/Pencils/Highlighters<br>-Notebook/Loose leaf and binder<br>-Scientific calculator<br>-Practical Guide | |
| *IB MYP Criterion* | *Examples of assessment/feedback both formative and/or summative* | |
| • *A: Knowing and understanding*<br><br>• *B: Inquiring and designing*<br><br>• *C: Processing and evaluating*<br><br>• *D: Reflecting on the impacts of science* | Assignments<br><br>Test | |

| Term 3 | | |
|---|---|---|
| *Competencies targeted* | *Evaluation methods* | *Timeline* |
| Competency 1: Theory; 60%<br><br>Competency 2: Practical; (Labs and Design cycle) 40% | May include, but not limited to:<br>-Quizzes<br>-Tests<br>-Lab reports<br>-Assignments<br>-Homework<br>-Final lab exam<br>-Final theory exam | To finish by:<br>June 17th |

| *Communication to students and parents* | *Materials required* |
|---|---|
| Report card in June<br><br>Verbal/Written communication, telephone/e-mail may be on an as needed basis | Pens/Pencils/Highlighters<br>-Notebook/Loose leaf and binder<br>-Scientific calculator<br>-Practical Guide |
| *IB MYP Criterion* | *Examples of assessment/feedback both formative and/or summative* |
| • *A: Knowing and understanding*<br><br>• *B: Inquiring and designing*<br><br>• *C: Processing and evaluating*<br><br>• *D: Reflecting on the impacts of science* | Lab exam<br><br>June theory exam |

| **Additional Information/Specifications** |
|---|
| ☐ This course does not have a final exam. The final course grade comes entirely from the school course grade.<br><br>☐ This course has a final exam administered by Laurier MacDonald High School. The final course grade is determined by taking 70% of the school course grade and 30% of the final exam.<br><br>☐ This course has a final exam administered by the *Ministère de l'Éducation et de l'Enseignement Supérieur* (MEES). The final course grade is determined by taking 50% of the school course grade and 50% of the MEES exam. Please note that the final course grade is subject to MEEs moderation. |