

DEPARTMENT OF SCIENCE
Cardinal Leger Catholic Secondary School

Course Code: SCH 4C1
Course Name: Grade 12 College Chemistry
Instructor:
Room Number: Room 225
Prerequisite: Gr. 10 Applied Science

Course Overview:

This course introduces students to the concepts that form the basis of modern chemistry. Students will study qualitative analysis, quantitative relationships in chemical reactions, organic chemistry, electrochemistry, and chemistry as it relates to the quality of the environment. Students will employ a variety of laboratory techniques, develop skills in data collection and scientific analysis, and communicate scientific information using appropriate terminology. Emphasis will be placed on the role of chemistry in daily life and in the development of new technologies and products.

Units of Study include:

1. Matter and Qualitative Analysis
2. Chemical Calculations
3. Organic Chemistry
4. Electrochemistry
5. Chemistry and the Environment

Assessment and Evaluation Structure: Reporting of student achievement of curriculum expectations:

| | |
|--------------------------------|------------|
| Knowledge/Understanding | 25% |
| Thinking/Inquiry | 35% |
| Communication | 15% |
| Application | 25% |

The above is reflected both in the term work (worth 70% of the final mark) and the summative work worth 30% (15% exam & 15% CPT of the final mark).

Evaluation Policy

Students will be assessed & evaluated according to the work produced & skills displayed. Methods of providing feedback will include assessing work in process & evaluating completed assignments, tests, co-operative learning activities, simulations and presentations. Peer & self-evaluations will also be utilized.

Student marks will be determined by evaluating process & product according to 4 categories & 4 levels. Please see the chart below for specific skills and key words used to determine student competency in the different categories.

| Category | Level | Level 1: 50-59% | Level 2: 60-69% | Level 3: 70-79% | Level 4: 80-100% |
|--|-------|---|--|--|--|
| Knowledge/Understanding <ul style="list-style-type: none"> Knowledge of facts & terms Understanding of concepts & relationships | | -Limited display of knowledge, skills and ability to apply | -Some success in displaying knowledge, skills and application of concepts | -Considerable display of knowledge skills and ability to apply concepts | -Thorough understanding of concepts and ability to communicate, think creatively and apply concepts |
| Thinking/Inquiry <ul style="list-style-type: none"> Critical thinking skills Multiple problem solving skills Inquiry Skills | | | | | |
| Communication <ul style="list-style-type: none"> Communication of ideas and information Use of symbols & visuals Oral & written communication | | | | | |
| Making Connections <ul style="list-style-type: none"> Applications in familiar contexts Transfer of concepts to new contexts Making logical conclusions and predictions Use of technology | | | | | |

Feedback will also be provided for student learning skills. Skills like working independently, team work, organization, work habits and homework, and initiative are assessed independently student achievement and will be conducted through the use of a rubric indicating specific criteria to be achieved to receive each of the following letter grades:

Other Evaluation Issues

Students are responsible for any work missed during an absence. It is your responsibility to find out what was missed and complete it before returning to school.

- LABS/ASSIGNMENTS.** All work is to be handed in at the BEGINNING of class. Assignments submitted after the *Primary Due Date* established by the teacher will be accepted with a penalty of 5% off for the first day late and 10% for the second day late to a maximum of 10%. This two day *Penalty Zone* is the maximum time allowed for submissions. The 2nd day after the assignment is due is considered the *Closure Date* upon which no further assignments will be accepted. If the teacher returns the marked assignments within the two day penalty zone, the date of return is considered the closure date. Repeated lateness in submissions indicates poor organization skills and may result in parental contact and will be reflected in the learning skills section of the report card.
- Plagiarism** in any form reflects academic dishonesty and will result in a mark of zero for the assignment in question
- INCOMPLETE ASSIGNMENTS:** Assignments will be graded according to the extent with which they meet the criteria established in the rubric or evaluation structure.
- MISSED TESTS** A test missed with a **legitimate reason** will be written within a few days of the student returning from the absence. Student eligibility to write the test and the date of writing will be at the discretion of the teacher in consultation with the department head.
 - Sickness:** The test will be written on the **first** day back without penalty, **providing** the parent or guardian has phoned the teacher that morning (**before 8 am**) of the missed test. (905-453-2232)
 - School Activity:** The teacher must be **aware** of the absence **before** the day of the test to make arrangements to write the test **before** the absence.

Classroom Expectations

- Be on time. **Lates cause distractions to classroom routines.**
- Be prepared. **Bring your notebook, textbook, pen, paper, calculator, ruler and eraser to class everyday.**
- Do not speak when someone else is speaking. **This is rude! If you have something to say raise your hand.**
- Treat everyone and everything around you with respect.
- Lab work is to be done **safely in groups**. Any broken or damaged equipment must be paid for. Work area must be left **tidy and clean** after class.
- Safety procedures **MUST be followed at all times**. Any safety violations will dismiss you from class and a **mark of zero** will be assigned. Any further lab work may be forfeited.
- No eating or drinking. This is a **serious safety issue** due to the use of chemicals in classroom before or during our class.
- Any damage to textbooks, desks or other classroom material is **not acceptable** and you will be asked to pay for the damages.
- I dismiss the class, not the bell. **Allow me to wish you a nice day before leaving.**
- Homework will be given daily. It must be done every night to succeed in this class. If you are absent, phone a classmate to find out what was missed and have it ready upon your return to school.
- Extra help is available. The student must be prepared for this extra help. If work and notes are not up to date and homework has not been attempted, it is not possible to help you. If you are willing to learn and work hard, anything is possible.
- **ABSOLUTELY NO** musical devices (IPOD's, MP3 Players etc) and **NO** cell phones will be permitted in our classroom. These devices will be confiscated and returned to you once you have completed your final exam at the end of the semester.
- **UNIFORM – Be in complete uniform when you enter our classroom. This means proper shoes, pants, shirts, sweaters etc, and ALWAYS have those shirts tucked in!!**
- ANY QUESTIONS... JUST ASK!

LEARNING PARTNER: _____

PHONE #: _____

Please sign below and return to indicate that you have read this document, including the Evaluation Policies, for the Science course stated below

STUDENT'S Name: _____ STUDENT'S Signature: _____

STUDENT'S SCIENCE TEACHER: _____