Grade 12 Chemistry

1. Course Details

Lawrence Park C.I.

Teacher(s):

S. Harris, C. Papaiconomou

Date revised: 8th September 2011

TDSB

Faculty: Science

Course Name:

Grade 12 Chemistry University

Faculty Office Phone:

416-393-9500 ext. 20060

Course Code:

SCH4U1

Name of ACL:

Ms. Amalia Fedor

Ms. Christina Papaiconomou

Prerequisite Course Code:

SCH3U1

ACL Contact:

416-393-9500 ext. 20060

Textbooks:

Chemistry 12 (Nelson)

(replacement cost 120CAD)

Credit Value: 1

Essential Resource Materials: textbook

2. Overall Expectations

- This course enables students to deepen their understanding of chemistry through the study of organic chemistry, the structure and properties of matter, energy changes and rates of reaction, equilibrium in chemical systems, and electrochemistry.
- Students will further develop their problem-solving and investigation skills as they investigate chemical processes, and will refine their ability to communicate scientific information.
- Emphasis will be placed on the importance of chemistry in everyday life and on evaluating the impact of chemical technology on the environment.

3. Learning Skills and Work Habits

Evaluated on Report Card as:

E (excellent); G (good); S (satisfactory); N (needs improvement)

The Learning Skills demonstrated by a student in every course are evaluated in the following six categories: Responsibility, Organization, Independent Work, Collaboration, Initiative, and Self-Regulation. The Learning Skills are evaluated using a four-point scale. The goal for each student is to improve Learning Skills which will translate into improved student's overall success.

In addition, completion of the assigned homework/assignments on time will contribute to student's success. We also know that regular attendance in all classes is essential for success; please avoid scheduling appointments during school time.

Students are expected to demonstrate academic honesty on all assignments, presentations, tests, and examinations. Students who cheat or plagiarize will receive a mark of zero for the assignment, presentation, test, or examination.

Responsibility	The Student: - fulfils responsibilities and commitments within the learning environment; - completes and submits class work, homework, and assignments according to agreed-upon timelines; - takes responsibility for and manages own behaviour.			
Organization	The Student: - devises and follows a plan and process for completing work and tasks; - establishes priorities and manages time to complete tasks and achieve goals; - identifies, gathers, evaluates, and uses information, technology, and resources to complete tasks			
Independent Work	The Student: - independently monitors, assesses, and revises plans to complete tasks and meet goals; - uses class time appropriately to complete tasks; - follows instructions with minimal supervision			
Collaboration	The Student: - accepts various roles and an equitable share of work in a group; - responds positively to the ideas, opinions, values, and traditions of others; - builds healthy peer-to-peer relationships through personal and media-assisted interactions; - works with others to resolve conflicts and build consensus to achieve group goals; - shares information, resources, expertise and promotes critical thinking to solve problems and make decisions			
Initiative	The student: - looks for and acts on new ideas and opportunities for learning; - demonstrates the capacity for innovation and a willingness to take risks; - demonstrates curiosity and interest in learning; - approaches new tasks with a positive attitude; - recognizes and advocates appropriately for the rights of self and others			
Self-Regulation	The student: - sets own individual goals and monitors progress towards achieving them; - seeks clarification or assistance when needed; - assesses and reflects critically on own strengths, needs, and interests; - identifies learning opportunities, choices, and strategies to meet personal goals.			

4. Teaching/Assessment and Evaluation Strategies – Course Work (70%)

Students will demonstrate achievement of all the overall expectations of the course. Missed and/or incomplete assignments will have an impact on the final grade where there are a significant number of curriculum expectations that have not been evaluated because of missed assignments. Timelines and units may be adjusted to accommodate student needs. Teachers may deduct marks for late assignments, to a total of 10% of the value of the assignment. Late assignments will not be accepted after the assignment has been taken up in class or the marked assignment has been returned to the class, at which point a mark of zero may be applied.

Unit #	Major Culminating Tasks	Achievement Chart Focus	Tentative Timelines
1	Unit 1: Structure and Properties of Matter		
	Lab AssignmentMajor Tests	• K/U; T/I; C; A • K/U; T/I; C	Sept. 2011Oct. 2011
2	 Unit 2: Organic Chemistry Lab Major Test Major Assignment 	 K/U; T/I; C; A K/U; T/I; C; A K/U; T/I; C; A 	 Dec. 2011 Dec. 2011 Dec. 2011, Jan. 2012
3	 Unit 3: Energy Changes and Rates of Reactions Dry Lab Assignment Lab Report Lab Test Major Tests 	 K/U; T/I; C; A T/I; C T/I; C; A K/U; T/I; C; A 	 Feb. 2012 Feb. 2012 Mar. 2012 Feb. & Apr. 2012
4	 Unit 4: Chemical Systems and Equilibrium Lab Major Tests 	T/I; C; AK/U;T/I;C;A	Apr. 2012May 2012
5	Unit 5: Electrochemistry■ Major Test	• K/U;T/I;C;A	■ June 2012

4. Teaching/Assessment and Evaluation Strategies – Final Evaluation (30%)

All students must take part in the culminating activities for each course at every grade level of study

Summative Tasks	Achievement Chart Focus	Weighting
Article Review	• K/U; T/I; C; A	5%
 Final Evaluation A comprehensive final exam written during the June exam period. This is based on all course material from September to June, including lab work. 	• K/U; T/I; C; A	25 %

5. Achievement Chart				
Achievement Categories For Course Work	Description	Weighting		
Knowledge/Understanding	 knowledge of facts and terms understanding concepts, principles, and theories understanding of relationships between concepts 	30%		
Thinking/Inquiry	 critical thinking skills(analyzing, detecting bias) creative thinking (problem solving) inquiry skills (formulating questions; conducting research; analyzing, interpreting, and evaluating information; drawing conclusions) 	30%		
Communication	 communication of information and ideas use of visuals and technology – multimedia oral communication (debates, discussions, listening skills, role-playing) written communication (short essays, writing in role) 	20 %		
Application	 application of concepts, skills, and procedures transfer of concepts, skills, and procedures to new ideas making logical conclusions or generalizations making predictions and planning course of action 	20%		

6. Term Grades for Provincial Reports

Term Grades for Provincial Reports throughout the Year

The grade for each term/reporting period is based on the evaluations that have been conducted to that point in the course and will be preliminary and tentative. They will be based on the most consistent level of achievement to that point in time, but some of the overall expectations, strands, and units will not have been addressed. The students' grades will most likely change when the students' entire work is evaluated by the end of the course.

Reporting Cycle

Reporting Cycle 1: September 6th – November 11th

Report Card – November 21st

November 14th – January 24th Reporting Cycle 2:

Report Card – February 16th
January 25th – March 30th
Report Card – April 18th
April 2nd – June 22nd

Reporting Cycle 3:

Reporting Cycle 4:

Final Report Card pick up from July 4th- 13th

June 25th and 26th (9-11 am only) Review Days:

7. Communication

In addition to class time, students can receive additional assistance from:

- Subject teachers before/after school, during lunch hour or by appointment;
- Homework Club every Tuesday and Thursday from 3:20 4:30pm in room 223;
- French Club every Monday at lunch time in room 212;
- FIFI Find It Finish It from 8:35 9:35am on November 9th, January 25th, March 28th, and May 16th
- Website: