**St. Michael Catholic Secondary School**

9130 Columbia Way
Bolton, Ontario L7E 4G6
Phone: 905-951-8935

*We believe that each one, created in the image and likeness of God, is called by name into the Dufferin-Peel community to realize the Ontario Catholic School Graduate Expectations to the fullest extent possible as we all journey from the early years to vocation.*

**COURSE OUTLINE**

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| --- | --- |
| **Department:** | Science |
| **Course:** | Grade 12 University Chemistry |
| **Course Code:** | SCH 4U1 |

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| --- | --- |
| **Common Course Calendar** | **Course Description:** |
| This course enables students to develop an understanding of chemistry through the study of matter and qualitative analysis, organic chemistry, electrochemistry, chemical calculations, and chemistry as it relates to the quality of the environment. Students will use 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 chemistry in daily life and the effects of technological applications and processes on society and the environment. |
| **Ministry/ICE Curriculum Documents** | **Strand/Unit Title** | **Corresponding Catholic Graduate Expectation Indicators for each Strand/Unit** |
| Matter and Qualitative AnalysisOrganic ChemistryElectrochemistryChemical CalculationsChemistry in the Environment | A Responsible Citizen (CGE7efgh)A Collaborative Contributor (CGE5abc)A Collaborative Contributor (CGE5)A Self –directed, Responsible, Life Long Learner (CGE4)A Responsible Citizen (CGE7) |

**Assessment and Evaluation:**

|  |  |
| --- | --- |
| **Category Weightings**  | **Weight %** |
| Knowledge & Understanding | 25 % |
| Thinking | 35 % |
| Application | 25 % |
| Communication | 15 % |
| **Final Summative Assessments** | **Overall Weighting** |
| Term Work | 70 % |
| Course Culminating | N/A |
| Exam | 30 % |

Learning Skills and Work Habits will also be assessed and reported on. For More information please refer to Growing Success pg. 11. <http://www.edu.gov.on.ca/eng/policyfunding/growsuccess.pdf>

**Assessment and evaluation (continued):**

The term evaluation comprises of any work that has been evaluated throughout the course including tests, quizzes, labs, assignments, presentations, etc.

The final evaluation comprises of two final pieces of evaluation that assess all material covered throughout the course. Culminating task and final exam are both completed in class on dates that are predetermined. Students are expected to be in attendance for each of these evaluation pieces and failure to be present will result in a grade of 0.

**Resources:**

The course will use a variety of resources including video, Internet Applications and a variety of print sources. The textbook *Nelson Chemistry 12* will be distributed to students during the first week of the course. An online version of the textbook can be accessed from home using the codes in the front of the book.

The text and all other resources assigned to students are the responsibility of the student. Any damage incurred will result in payment for replacement. Replacement cost for the text is $150.00.

###### 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 1: 50-59% | Level 2: 60-69% | Level 3: 70-79% | Level 4: 80-100% |
| Knowledge/Understanding* Knowledge of facts & terms
* Understanding of concepts & relationships
 | -Limited display of knowledge, skills and ability to apply concepts. | -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* Critical thinking skills
* Creative thinking skills
* Inquiry Skills
 |
| Communication* Communication of ideas and information
* Use of symbols & visuals
* Oral & written communication
 |
| Application* Applications in familiar contexts
* Transfer of concepts to new contexts
* Making logical conclusions and predictions
* Use of technology & making connections
 |

Feedback will also be provided for student learning skills. Skills such as responsibility, organization, independent work, collaboration, initiative and self -regulation 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:

 E –Excellent G – Good S – Satisfactory N - Needs Improvement

**Other Evaluation Issues**

* **LATE ASSIGNMENTS**: Assignments submitted after the *Due Date* established by the teacher will be accepted with a penalty of 5% off for the first day late, 3% for the second day and 2% on the third day to a maximum of 10%. After the closure date (normally 4 days) a mark of zero may be assigned. This four-day *Penalty Zone* is the maximum time allowed for submissions. The fourth 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 four day penalty zone, the date of return is considered the closure date. Repeated lateness in submissions indicates poor organization skills and will result in parental contact and will be reflected in the learning skills section of the report card.
* **INCOMPLETE ASSSIGNMENTS**: Assignments will be graded according to the extent to which they meet the criteria established in the rubric or evaluation structure.
* **MISSED TESTS**: Student eligibility to write any missed tests and the date of writing will be at the discretion of the teacher in consultation.
* **CULMINATING TASK**: This task will be conducted towards the end of the course and takes place during class. Absence on the day of culminating task results in a grade of 0. The task represents 10% of the final mark and will reflect course material and competencies not otherwise reflected on the final exam.
* **PLAGIARISM**: Plagiarism in any form reflects academic dishonesty and will result in a mark of zero for the task in question.
* **MATERIALS -** Any intentional damage of classroom or course materials will result in the student responsible being required to pay some or all of the replacement cost.