**School of English & Liberal Studies**

**Faculty of Communication Art and Design**

**Professor’s Addendum to Course Outline**

**COURSE CODE: LSO322YA**

**COURSE TITLE**: Five Greatest Ideas in Science

**TERM: Winter 2018**

**PROFESSOR: Dr. Jenny Griffin**

**ROOM: DB3135**

**EMAIL:**

Approved by:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

John Stilla, Chair, School of English & Liberal Studies

**Office Hours: 30 minutes before and 30 minutes after class, or by appointment**

## LSO322: The Five Greatest Ideas in Science Course

Welcome to LSO322! Please read this addendum to the general courses outline carefully. It is your guide to the course requirements and activities in my class. Be sure to read the outline containing key course information at **<http://my.senecacollege.ca>/school/els**.

LSO322 is an introduction to five fundamental theories across the natural science disciplines. This course introduces students to the concept of the scientific method as a framework for inquiry about the natural world. Using this framework we will examine the following “great” ideas:

Physics (Newtonian Mechanics and Relativity)

Chemistry (Periodic Table of Elements)

Astronomy (The Stars and the Big Bang Theory)

Geology (Plate Tectonics)

Biology (Cell Theory, Genetics and Molecular Biology and Evolution)

Please also look at **els.senecacollege.ca/** where you will find key information from the School of English and Liberal Studies, especially regarding ELS courses and graduation requirements.

### Texts and Materials

**"The Sciences An Integrated Approach 8th Edition"**

**Binder-ready version**

Authors:  James Trefil and Robert Hazen (T&H)

Published 2015/6 by Wiley  (Available at Seneca Bookstore)

**"The Sciences An Integrated Approach 7th Edition" Published 2013 (used) is also acceptable**

E-text available for purchase:  Yes \_\_\_X No \_\_\_

A folder/portfolio to keep all your work throughout the term

Pens and paper

Calculator

### Grading and Assignments

**Tests 40% (4 Unit tests each worth 10%)**

**Term Paper 15% (Annotated Bibliography and paper)**

**Quizzes 10% (5 quizzes on readings/lectures each worth 2%)**

**Take-Home Assignment 10%**

**Final Exam 25%**

### Please Note:

The use of internet, cell phones and other electronic devices is not permitted during graded assignments and the final exam, and restricted to coursework during class.

*Consistent with Seneca College policy for English and Liberal Studies courses, the term work for courses within this School of English & Liberal Studies includes a minimum of 250 pages of reading and 2000 words of writing.*

**TENTATIVE WEEKLY SCHEDULE**

**Winter 2018**

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| --- | --- | --- | --- |
| **Week** | **Topic** | **Reading** | **Assignment** |
| 1. Jan 17 – Jan 19 | Introduction; Inquiry and the Scientific Method | T&H Chapter 1 | Biographical sketch (not for marks) |
| 1. Jan 22 – Jan 26 | Physics: Newton’s Laws of Motion | T&H Chapter 2 | Quiz #1 Scientific Method and Newton |
| 1. Jan 29 – Feb 02 | Physics: Einstein and the Theory of Relativity | T&H Chapter 7 | Quiz #2 Relativity |
| 1. Feb 05 – Feb 09 | Chemistry: The Periodic Table of Elements | T&H Chapters 8 and 10 | Unit Test: Physics |
| 1. Feb 12 – Feb 16 | Chemistry: Applications of Atomic Properties | T&H Chapter 12 | Quiz #3 Periodic Table |
| 1. Feb 20 - Feb 23   ***February 19 - Family Day***  ***(Holiday)*** | NO CLASS-Research for Paper and Work on Assignment | T&H Chapter 14 | Annotated Bibliography and Research for Term Paper  Assignment DUE Electronic Submission |
| 1. Feb 26 – Mar 02   ***Study Week*** | **Study Week** | | |
| 1. Mar – Mar 09 | Astronomy: Big Bang Theory | T&H Chapter 15 | Unit Test: Chemistry |
| 1. Mar 12 – Mar 16 | Geology: Plate Tectonics | T&H Chapter 17 | Quiz #4 Big Bang Theory |
| 1. Mar 19 – Mar 23 | Biology: Cell Theory | T&H Chapters 20 and 21 | Unit Test: Astronomy and Geology |
| 1. Mar 26 – Mar 29   ***Mar 30 – Good Friday***  ***Holiday*** | NO CLASS  GOOD FRIDAY |  |  |
| 1. Apr 02 – Apr 06 | Biology: Genetics and The Molecular Biology Revolution | T&H Chapters 23 and 24 | Quiz # 5 Genetics  TERM PAPER DUE |
| 1. Apr 09 – Apr 13 | Biology: The Theory of Evolution | T&H Chapter 25 | Unit Test: Cell Theory and Genetics |
| 1. Apr 16 – Apr 20 | Final week of class and exam | | FINAL EXAM IN CLASS |
| 1. Apr 23 – Apr 24 |  | |  |

**Format:** Only work with a neat, professional appearance will be accepted for grading. Out-of-class assignments must be word- processed.

**Late Assignments:** Unless an extension has been granted, a late out-of-class assignment will be penalized at a reduction of ½ letter grade per school day with a one-week maximum for submission.

**Missed Assignments:** Along with prior notification, you may be asked to provide medical/legal documentation. Make-ups are granted at the professor’s discretion.

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| --- | --- |
| **Grading Policy** | |
| A+ | 90%  to  100% |
| A | 80%  to  89% |
| B+ | 75%  to  79% |
| B | 70%  to  74% |
| C+ | 65%  to  69% |
| C | 60%  to  64% |
| D+ | 55%  to  59% |
| D | 50%  to  54% |
| F | 0% to  49% (Not a Pass) |
| OR | |
| EXC | Excellent |
| SAT | Satisfactory |
| UNSAT | Unsatisfactory |

### Evaluation

Evaluation is based on correct language usage, organization and mastery of the course at a post- secondary level. Students are expected to learn professional standards of performance in the course areas, and tests and assignments will be graded on that basis. In recognition of the significance of exceptional communication skills in the work place, marks are deducted for language errors on all tests and exams.

### Attendance and Participation

**Consistent attendance is expected as it contributes to student success in this course*.*** If you will be absent from class, please notify me by phone or e-mail. You are still responsible for the material and assignments missed and will be required to provide documentation. For extensions or special considerations, make the request to me well in advance of any due dates.

Considerate classroom conduct, adequate class preparation and constructive participation will enhance your academic experience and that of your colleagues. In particular, you are asked to contribute to the learning environment by being prompt, courteous, responsible and collaborative, and by following the behavioral policies listed in the College Academic Policy and the Student Handbook.

### Student-Faculty Consultation outside Classroom Hours

Please arrange times with me during office hours to discuss your work and progress in this course.

**Learning Centre**

For free English tutoring and skill-building workshops, visit the Learning Centre. Whether English is your first, second, or third language, tutors offer guidance and helpful tips for stronger grammar, sentence structure, composition, vocabulary, reading comprehension, citation, and other writing–reading competencies (though they do not correct your work). Workshops offer opportunities to learn and practice new strategies in writing, reading, and speaking within small groups. To book a tutorial or workshop appointment online, go to **Student Centre** in **mySeneca**, and click the link below **Learning Centre–Tutor Booking** (bottom left). You can also visit the Learning Centre at your campus to book an appointment in person. At the York Campus, the Learning Centre is located in room S1120.

### Dropping a Course

There are two deadlines for dropping this course. If you drop by Day 10 of the Term, the course will not appear on your transcript. If you drop by the last drop date (see Student handbook), the course will appear on your transcript with a grade of DNC. To drop, please notify your professor, complete a **“Timetable Change Form,”** and return it to Registration by the deadline. Discuss any possible negative consequences of dropping the course with your ELS Coordinator.

**PLEASE RETAIN THIS DOCUMENT FOR FUTURE**

**EDUCATIONAL AND/OR EMPLOYMENT USE.**

## Academic Regulations

It is your responsibility as a student of Seneca College to be aware of and abide by the academic and behavioural policies outlined in the College Academic Policy and the Student Handbook. Here are some key policies:

### Academic Honesty

### (Section 9 and Appendix E - Academic Policy)

“Engaging in any form of academic dishonesty to obtain any type of academic advantage or credit is an offence under this policy and will not be tolerated by the College. The penalty for a first academic honesty offence is a grade “0” on the work in which the offence occurred and will result in a comment being placed on the transcript by the Academic Honesty Committee. The penalty for the second academic honesty offence is an “F” in the course where the offence occurred, a second comment on the transcript and suspension from the College for a time period determined by the Academic Honesty Committee normally for a minimum of three (3) Terms.”

For more information on Academic Honesty, go to: <http://library.senecacollege.ca>.

### Student Appeals (Section 12 – Seneca College Academic Policy)

Students have the right to appeal academic decisions of the College. The procedures for informal and formal appeals are outlined in Academic Policy. If a student disagrees with the evaluation of an assignment or with a final grade, s/he must first discuss the matter with the professor in an attempt to resolve the disagreement. If the matter is not resolved, the student should discuss the problem with the Coordinator or the Chair of English and Liberal Studies. Students must keep all assignments (including drafts and outlines) and exercises until they receive their final grade. No appeal will be considered unless a complete file is submitted at the time of the appeal.

### Information Technology Acceptable Use

See the Student Handbook. Faculty and students are reminded that College correspondence should only be disseminated electronically through official College-provided e-mail. Alternate e-mail addresses such as Yahoo mail or Hotmail mail are not authenticable through Seneca.

### Copyright – See the Student Handbook

There are limitations to reproducing materials from texts and other copyrighted materials. Essential copyright information is available in the Student Handbook and at <http://library.senecacollege.ca>.

### Students Rights and Responsibilities - See the Student Handbook

### Discrimination and Harassment – See the Student Handbook

All students and employees have the right to study and work in an environment that is free from discrimination and/or harassment. Language or activities that defeat this objective violate the College Policy on Discrimination/Harassment and shall not be tolerated. Information and assistance are available from the Resolution, Equity and Diversity Centre.

### Accommodation for Students with Disabilities

The College will provide reasonable accommodation for students with disabilities in order to promote academic success. If you require accommodation, contact the Counselling and Accessibility Services Office at ext. 2900 to initiate the process for documenting, assessing and implementing your individual accommodation needs.