

Division of Natural Science

<http://natsci.info.yorku.ca/>

Course Outline

NATS1830 A, Mysteries of Everyday Materials
Fall/Winter 2018-2019
Tuesdays and Thursdays, 1:00-2:30 pm, Stedman Lecture Hall (SLH) A

Course Instructor and Contact Information

Dr. Stephanie Pugliese Domenikos

Assistant Lecturer, Department of Science and Technology Studies

Chemistry Building Room 352

Phone: 416-736-2100 ext. 22912 (no voicemail – leave message by email)

Course email: nts1830a@yorku.ca (use your @mymail.yorku.ca account, see “Communications” below)

Course website: <https://moodle.yorku.ca>

Office hours: Drop-in office hours September-May (no appointment necessary) or set up by email

Communications:

Instructor Announcements: Moodle – Course Announcements Forum

General Course Questions: Moodle – General Question and Answer forum

- Before emailing the course email (nts1830a@yorku.ca) please check Moodle Q and A forum to see if another student has already asked the same question. If not, post your question there (likely another student has the same question)
- Instructor, students and TAs can view and respond to all posts

Personal issues and concerns: Email nts1830a@yorku.ca

Email Policies and Etiquette:

- Use only your @mymail.yorku.ca account (email with other accounts may be filtered)
- Allow 24-48 hours for a response
- Use for personal issues (ex. illness, missing of a midterm, setting up an appointment, etc.)
- Provide a descriptive subject header (ex. “Missing midterm due to illness”)
- Be polite and professional
- Write in clear sentences without using slang, text lingo or vulgar terms
- Sign off with first and last name

Expanded Course Description

We live in a material world. To understand the matter that makes up this world around us, we need to appreciate and recognize that Chemistry- the study of matter is at the heart of it all. Our daily lifestyle - tapping into energy, food stuffs consumed, our clothing, medicines, our environmental concerns all have their connections to chemistry. Indeed, from the moment you begin your day with that toothpaste, to travelling in your car, to the clothes you wear, your food that you consume, your smart phone that you use you will reckon with the magic and wonder that is "Chemistry". Ever wondered about that universal compound "water"? How does a battery work? Why does nothing stick to Teflon? The answers to these and many mysteries of daily life lie in "Chemistry –the Central Science". Conversion of raw materials into valuable products requires knowledge of chemistry. We understand how life is carbon-based and computers are silicon-based. Indeed, chemistry is ubiquitous and all pervading. Learn how chemistry has evolved through the years leaving its long lasting impact stretched out across the fore-finger of time. Through interactive lecture, in-class discussions and activities, we will journey through the chemical world and discover the power of chemistry and how the chemical structure of matter governs its reactivity and properties.

Course Learning Outcomes

Upon successful completion of this course students should be able to:

- Understand and describe the chemical structure of a variety of substances and connect this structure to relevant properties
- Describe the connection between chemistry and everyday materials
- Effectively communicate chemistry of materials in both written and oral platforms
- Work effectively as a team member to achieve desired learning goals

Evaluation

Assessment	Weight	Due date
iClicker Cloud in-class participation	5 %	Every class
Moodle Homework	8 %	Roughly bi-weekly
Quizzes (4 x 3 %)	12 %	October 4, November 8, January 31, March 7
Project 1 – Case Study	15 % (breakdown below)	
• Proposal	(2 %)	September 27
• Annotated Bibliography	(3 %)	November 1
• Final paper	(10 %)	November 29
Project 2 – Public Service Announcement	10 % (breakdown below)	
• Storyboard	(2 %)	January 24
• Group check-in and peer/self-evaluation	(1 %)	February 28
• Final video	(7 %)	March 28
Midterm	20 %	December exam period (Dec. 6-21)
Final Exam	30 %	April exam period (Apr. 5-20)

Statement on grades and extra credit assignments:

In order to be fair and consistent to the entire class, individual grades are not negotiable and “extra credit” assignments are not provided at any point during or after the course. Please contact the instructor about a grade **only** if there is a clear error (calculation, clerical, etc.) within two weeks of the grade being made available to you.

Course Materials**Required eBook:**

Heller & Snyder. (2015). *Visualizing Everyday Chemistry 1st Edition*. Wiley.

- Purchase through the York Bookstore:
https://www.bookstore.yorku.ca/buy_textbooks.asp?

Required iClicker Reef:

- Use your laptop or smartphone for this activity – let Dr. Pugliese Domenikos know if you don't own either technology
- Download the app – see instructions here: <http://its.info.yorku.ca/polling-student/>

Laboratory/Tutorial

This course does not have a laboratory or tutorial component

Course Content and Format

This course spans over two semesters, with two 1.5-hour lectures per week. Lectures will be interactive. Over the entire course, there will be 2 tests (midterm and final), 4 quizzes (two per term) and two scaffolded projects (one per semester).

Midterm and final exam will be a combination of multiple choice, problem solving and short answer.

Quizzes will be multiple choice, fill in the blanks and matching.

Math Content

Basic concepts as covered in Ontario Grade 10 Math

Course Policies**Questions and Concerns**

Questions and concerns should be directed to the Dr. Stephanie Pugliese Domenikos either during class time or during office hours. You can also email questions to the Moodle Question and Answer Forum or the course mailbox (nts1830a@yorku.ca), where they will be responded to in 24-48 hours.

Conduct during Assessments

In-class quizzes: Quizzes will start promptly at 1:10 pm. During in-class quizzes, all notes, aids and electronic devices must be placed under your chair, and all electronic

devices must be turned off.

In-class activities: Activities, such as case studies, will occur occasionally during class time. During this time, students are allowed to work in groups and access their notes or any other resources. Discussion is encouraged and students are welcome to ask for help.

Conduct during Lecture

During lecture students may use smartphones or laptops for iClicker participation and note taking. However, use of electronics for any personal purposes will not be tolerated. Volume for all devices must be disabled.

Policy for a Missed Midterms/Quizzes/Final Exam

Midterm or quiz: If a midterm or quiz is missed, you must email an Attending Physician's Statement (<http://registrar.yorku.ca/pdf/attending-physicians-statement.pdf>) to the course email (nts1830a@yorku.ca) within 48 hours of the missed test/quiz. If exemption is granted for the missed test/quiz, the missed component will be added to the final exam. There are no make-up quizzes or tests.

Final Exam: There will be one deferred exam scheduled at the same time for all students who miss the final exam.

Late Submissions and Late Penalties

Late assignments should be submitted directly to the Moodle site. A penalty of 10 % per day (including weekends) will be enforced, up to a period of 10 days where the assignment will then receive a grade of zero.

Reappraisal Requests

If you require a reappraisal of work that has been submitted and marked, an email must be sent to the course email (nts1830a@yorku.ca) to set up an appointment with the course instructor. Valid reasoning must be provided to request a reappraisal.

Copyright and Intellectual Property

In order to protect copyright and intellectual property, you may not:

- Upload any course content* to any website
- Record lectures for non-personal use
- Photograph class activities

*Course content includes any activities, documents or files connected to this course, including lecture slides, recordings, images, tests, quiz questions, in class participation exercises, and assignments.

University Policies

Important Sessional Dates – Fall-Winter 2018/2019 Term

Fall classes start: September 5, 2018

Fall Reading Week (no classes, University open): Oct. 6-12, 2018

Fall classes end: December 4, 2018

Fall study day (no classes, University open): December 5, 2018

Fall examinations: Dec. 6-21, 2018

Winter classes start: January 3, 2019

Winter Reading Week (no classes, University open): Feb. 16-22, 2019

Winter classes end: April 3, 2019

Winter study day (no classes, University open): April 4, 2019

Winter examinations: April 5-20, 2019

Academic Honesty and Integrity

Academic honesty requires that persons do not falsely claim credit for the ideas, writing or other intellectual property of others, either by presenting such works as their own or through impersonation. Similarly, academic honesty requires that persons do not cheat (attempt to gain an improper advantage in an academic evaluation), nor attempt or actually alter, suppress, falsify or fabricate any research data or results, official academic record, application or document. Finally, academic honesty requires that persons do not aid or abet others to commit an offence of academic dishonesty, including intentional acts to disrupt academic activities.

Suspected breaches of academic honesty will be investigated and charges shall be laid if reasonable and probable grounds exist.

Academic Honesty and electronic devices during assessments (e.g. exams)

- Internet capable and personal storage devices of all kinds must be turned off, including vibrate. These and any other unauthorized material must be placed under the student's chair and should not be accessed at any point during the exam. Failure to comply with directive may be considered a break of academic honesty.
- See <http://registrar.yorku.ca/exams/tipsheet>

Please familiarize yourself with the full Senate Policy on Academic Honesty, found at <http://secretariat-policies.info.yorku.ca/policies/academic-honesty-senate-policy-on/>

Please also familiarize yourself with the SPARK Academic Honesty tutorial found at <https://spark.library.yorku.ca/academic-integrity-what-is-academic-integrity/>

Academic Accommodation for Students with Disabilities

York University shall make reasonable and appropriate accommodations and adaptations in order to promote the ability of students with disabilities to fulfill the academic requirements of their programs.

The nature and extent of accommodations shall be consistent with and supportive of the integrity of the curriculum and of the academic standards of programs or courses.

Please familiarize yourself with the full Senate Policy on Academic Accommodations for Students with Disabilities, found at <http://secretariat-policies.info.yorku.ca/policies/academic-accommodation-for-students-with-disabilities-policy/>

Note: Students should submit accommodation letters from Counseling and Disability Services (CDS) to the course instructor within the first two weeks of the course or as soon as issued.

Counseling and Disability Services - <http://cds.info.yorku.ca/>

York Accessibility Hub - <http://accessibilityhub.info.yorku.ca/>

Note: A student registered with CDS, and choosing to write with Alternate Exams, is responsible for making the appropriate writing arrangements within the timeframes outlined by Alternate Exams.

Alternate Exams - <http://altexams.students.yorku.ca/>

Religious Observance Accommodation

York University is committed to respecting the religious beliefs and practices of all members of the community, and making accommodations for observances of special significance to adherents.

<https://w2prod.sis.yorku.ca/Apps/WebObjects/cdm.woa/15/wo/kmHGekTpzKLX6XYKBXYc8M/0.3.4.62.0>

Note: Students who will have an academic conflict as a result of a religious observance, at any point in the term, should make the instructor aware of such at least three weeks prior to the conflict.

For conflicts occurring during an official examination period, please complete the Examination Accommodation Form available at http://www.registrar.yorku.ca/pdf/exam_accommodation.pdf and submit to your instructor at least three weeks prior to the final exam.

Student Conduct in Academic Situations

Students and instructors are expected to maintain a professional relationship characterized by courtesy and mutual respect and to refrain from actions disruptive to such a relationship. Moreover, it is the responsibility of the instructor to maintain an appropriate academic atmosphere in the classroom and the responsibility of the student to cooperate in that endeavour. Further, the instructor is the best person to decide, in the first instance, whether such an atmosphere is present in the class. A statement of the policy and procedures regarding disruptive and/or harassing behaviour by students in academic situations is available on the website of the University Secretariat (<http://secretariat.info.yorku.ca/>).

Division of Natural Science Resources

NATS-AID

Free peer tutoring for students enrolled in Natural Science Courses.

See <http://natsci.info.yorku.ca/nats-aid/>

M-AID in NATS (Math Aid)

Free math help for students enrolled in Natural Science Courses (TA tutors)

See <http://natsci.info.yorku.ca/m-aid-in-nats/>

Other Resources

Learning Commons

The Learning Commons brings together key supports for your learning: writing, research, learning skills and career services. <http://www.library.yorku.ca/cms/learning-commons/>

goSAFE

goSAFE is a complimentary service provided to the York Community. At the Keele campus, goSAFE has two routes: North Route & South Route which will safely transport community members by vehicle from one specified hub to another on campus. goSAFE operates seven days a week, all year round, including University closures (with the exception at Glendon during the Christmas holiday closure).

Call the goSAFE office at 416-736-5454 or extension 55454 during hours of operation. Please give your name, location and destination. <http://www.yorku.ca/goSAFE/>

Mental Health and Wellness at York University

Outlines a variety of resources available to support mental health and wellness

<http://mhw.info.yorku.ca/resources/resources-at-york/students/>

Good2Talk

Post-Secondary Student 24 hour Helpline

<http://www.good2talk.ca/> 1-866-925-5454