

**Division of Natural Science**

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

**Course Outline**

NATS 1565A 3.0, Plant Life, Human Life  
Fall Term, 2018  
Mondays, 1pm to 4pm, Accolade East Room 102

**Course Instructor and Contact Information**

**Jill Lazenby, Ph.D.**

Assistant Lecturer, Department of Science and Technology Studies

Norman Bethune College Room 226A

Phone: 416-736-2100 ext. 20466 (no voicemail – leave message by email - see “**Communications**” below)

Email: [nats1565@yorku.ca](mailto:nats1565@yorku.ca)

Drop-in office/phone drop-in hours (no appointment needed): Tuesdays 10:30am-12

Other office/phone appointments: set up by email

Course website: [Moodle - https://moodle.yorku.ca](https://moodle.yorku.ca)

**Communications:**

Instructor announcements: **Moodle – Course Announcements forum**

- Instructor postings only
- Will also go to email set up in Moodle personal profile
- Check frequently for updates (last minute reminders and changes, etc.)

General course questions: **Moodle – Student Q and A forum**

- Response time = normally within 24 hours
- Instructor and students can view and respond to all posts

Personal issues and concerns: Email [nats1565@yorku.ca](mailto:nats1565@yorku.ca)

**Email Policies:**

- Use your [@my.yorku.ca](mailto:my.yorku.ca) account if possible (email with other accounts may be filtered)
- Allow up to 3 business days for a response – resend email after 3 days if no response
- Use for personal issues, (ex. illness or personal situation, requests for one-on-one help, altexams issues, etc.) – use Moodle Q and A forum for general course questions
- Provide a descriptive subject header (ex. “Question about Week 4 lecture” not “Urgent!!” or “Hey there”).
- Be polite and professional
- Write in clear, complete sentences without using slang, or text lingo
- Sign off with your **first and last name and phone number** where you can be reached

### Expanded Course Description

The plant world is essential for human life, and shapes human culture. Plants are food, fuel and raw materials. They transform and sustain the soil, air and water of our ecosystems. They produce molecules that are the active ingredients in herbal medicine, modern pharmacology and psychoactive drugs. Humans alter plants using breeding and biotechnology, and use them to enhance their environments and their cultural activities. Using introductory concepts from the life sciences, this course explores these vital relationships between humans and plants.

**NCR Note: This course is not open to any student who has passed or is taking SC/BIOL 1000 3.00, SC/BIOL 1001 3.00, SC/BIOL 1010 6.00.**

### Course Learning Outcomes

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

- List the characteristics of living organisms, and describe how these features are evident in plants.
- Identify the significant parts of the plant, some tissues, and the main features of a plant cell
- Relate significant plant parts to specific functions in the organism and environment (for example, photosynthesis; movement of water; absorption, transport and storage of nutrients; soil development and maintenance; gas exchange; inheritance)
- Relate plant structures and functions to their human uses as specific raw materials, foods, and molecules that are of interest for human nutrition, health, industry and environmental concerns
- Experience a greater awareness of plants and plant products encountered in daily life
- Describe the role of a few plants in one or more knowledge systems and cultures

### Evaluation

- iClicker activities: 5%
- Online activities: 20% (drop lowest 1 of 5)
- Saturday Midterm (October 27, 2-4pm): 20%
- Term Project: 25%
- Final Exam (December 6-21 exam period): 30%

#### **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.

### Math Content

Basic concepts as covered in Ontario Grade 10 Math.

### Laboratory/Tutorial

No lab/tutorial in this course.

## Course Materials

### Required Text:

Levetin, E. and McMahon, K. (2016). *Plants and society* (7<sup>th</sup> ed.). New York: McGraw-Hill Education.

- Students may use either the eBook (\$89 for 1 year access) OR printed book format (\$149.95) according to preference.
- Purchase your eBook Access Code through York University Bookstore, either online ([http://www.bookstore.yorku.ca/sell\\_access\\_codes.asp?](http://www.bookstore.yorku.ca/sell_access_codes.asp?)) or by picking up a flyer in person at the bookstore. If you purchase online, a redemption code will be emailed to you after the transaction clears. Return to the bookstore link above to enter the redemption code and receive your access code.
- DO NOT purchase through the publisher (you will not get the Bookstore 1-year access deal)

**Additional supplementary eResources available on Moodle course page**

## Course Content and Format

- 3 hours per week of in-class lecture and participation activities, including iClicker questions
- 5 Online activities (see Moodle postings and Lecture Schedule)
- Complete lecture schedule is available on Moodle, and at the end of this document
- Lecture slides will be posted to Moodle.

## Course Policies

### 1. Conduct Online and During Tests

Students are expected to behave in a courteous and professional manner in all course activities, and to help create an environment that promotes academic integrity. Here are some guidelines for conduct:

- Please use “netiquette” in your online interactions for this course. Use a descriptive subject heading on posts and emails, use clear and respectful language, and keep your tone polite and professional.
- Cell phones must be turned off during the midterm and exam and placed in your closed bag on the floor, or on the floor under your seat. If you are found with a cell phone on your person at any time during a test, the matter will be referred to the Division of Natural Sciences for an Academic Integrity hearing.
- There are no aids for the midterm and exam. You may only have a pencil, pen, eraser, student ID and drink on your work surface. **If you require a translation dictionary you must clear this with the course director one week before the test** – no electronic devices are allowed, but a paper dictionary may be approved if given to the course director for inspection one week in advance.

### 2. Communication in the course

Please use the designated Q&A Moodle forum, to ask questions about the course so all students may benefit. You are encouraged to respond to other students’ forum questions if you know the answer. If you have a question of a personal nature, please contact the course director by email at nats1565@yorku.ca.

Instructor announcements will be posted on the Course Announcements forum. These announcements will go to the email associated with your Moodle account. It is recommended that

your @my.yorku.ca email account is associated with your Moodle Profile. You can change your email by clicking on your name at top right when you are logged in to Moodle, and then "Edit Profile". Please also upload a recent picture to your profile and add a few words about yourself.

### 3. Email Policy and Office Hours

The course email address is **nats1565@yorku.ca**. It is recommended that you use your @my.yorku.ca account for all course business (emails from other accounts may be filtered). All emails must contain a descriptive subject heading (example: "Scheduling a meeting for next week") and a brief grammatically-correct memo in the body. Always sign your emails with your first and last name, your course number, and if possible, a phone number where you can be reached. Allow 3 business days for a response, and resend the email if you don't receive a response within 3 days (sometimes emails get lost or buried).

Drop-in office hours are Tuesdays 10:30-12 in Bethune 226A, and no appointment is needed. You may also schedule a face-to-face or phone meeting outside office hours by email.

### 4. Academic Integrity

Academic integrity is taken very seriously in all York courses. All work for this course must be the original work of each student. In your written work ensure that you give full credit for text and ideas that are not your own. Direct quotations must be in quotation marks with accurate citations. Paraphrased ideas must be cited. Consult with Jill Lazenby if you have any questions.

Suspected breaches of academic honesty of any kind will be referred to the Associate Dean of Students in the Faculty of Science. The York Academic Honesty Policy can be reviewed at <http://www.yorku.ca/secretariat/policies/document.php?document=69>

Each student must complete the Academic Integrity Tutorial and Quiz, and must get all 10 questions correct (you may take the quiz multiple times). The tutorial can be completed in 30-40 minutes.

Keep all rough notes, drafts and completed project files until after you have received a final grade for the course.

### 5. Assignment Submission and Deadlines

The term project is due by 11:59pm the day of the deadline, and is submitted electronically through Moodle. Further instructions and assignment submission links will appear on Moodle.

Online activities are normally opened Friday mornings and are due no later than 11:55pm on Sundays, and must be completed and submitted online. No late online activities are accepted for any reason. The lowest 1 grade will be dropped from the final grade (zeros included).

### 6. Late Assignments, Projects and Missed Tests

Students are expected to take responsibility for the deadlines in the course. Complete work ahead of deadlines and see Jill Lazenby well before a deadline if you need some guidance.

**Important note:** Computer crashes, internet problems, equipment failures, business trips, employment schedules, volunteer opportunities, vacations, family trips, job interviews, etc. are not considered valid reasons to miss course deadlines, and no extensions or makeup tests will be granted for these. Arrange to complete work early if you have a personal conflict, back up your work frequently, and make use of on-campus facilities if you are encountering personal computer or internet problems.

**Late quizzes:** No late online activities will be accepted for any reason. The lowest grade will be automatically dropped from your final grade calculation.

**Late Term Projects:** 10 marks per day will be deducted from your final percentage grade of late term projects, beginning at 12:00am, and including weekends, unless documentation is provided verifying an unavoidable medical situation or personal emergency (see below). **If you have trouble uploading to Moodle by the deadline, you must email your completed project to nats1565@yorku.ca and try again later – the time of completion will be the time the emailed project was received.**

**Missed Midterm or Exam:** You must notify the course director within 48 hours of a missed midterm or exam, and supply documentation within one week. Your case will be considered and you will receive a reply within one week.

If you miss a midterm, one make up test opportunity will be provided for students with valid documentation of a medical issue (APS form) or personal emergency. Failure to attend the scheduled makeup midterm will result in 0 for the test. If you miss a final exam and have valid documentation, one opportunity will be provided during the exam period, or if you qualify for Deferred Standing (see below) as soon as possible after the exam period.

**Required Documentation:** If you are ill you must inform Jill Lazenby immediately (within 48 hours of a test or deadline) and ask your physician to fill out an Attending Physician Statement (found on Moodle in the Communications and Information box). A copy of this must be emailed to Jill Lazenby for consideration.

If you have a personal emergency you must inform Jill Lazenby immediately and collect supporting professional documentation to verify the reason for missing a deadline (ex. Funeral notice with any travel documentation, letter from a psychotherapist or counsellor or chaplain). Your case will be considered after documentation is received. Please contact Jill Lazenby with any questions about appropriate documentation.

If your situation is unusual, or not covered above please email Jill Lazenby and book a phone or in-person meeting to discuss the issue.

Deferred Standing and Academic Petitions: If you have a documented personal emergency or medical issue that require submission of work after the last day of classes (December 4, 2018), you must obtain Deferred Standing in the course (<http://myacademicrecord.students.yorku.ca/deferred-standing>). Failure to meet the deferred deadline(s) will result in the need to submit an academic petition to qualify for further accommodations (<http://myacademicrecord.students.yorku.ca/academic-petitions>).

### 7. Personal Student Performance and Getting Help

Students are responsible for their performance in the course, but are encouraged to make use of the Q&A forum on Moodle, and also to seek guidance from the Course Director, and York's services, as needed. To discuss any personal concerns about performance in NATS 1565, students can drop by 226A Bethune or call Jill Lazenby during office hours, or can request a phone, or in-person office appointment outside office hours (email for an appointment). Students can also review tests through an in-person appointment.

The Division of Natural Science also offers NATSAid, a peer support service staffed by student volunteers who successfully completed NATS courses in previous terms. See the Moodle page for

more information. Students are also encouraged to make use of the Learning Skills Centre, Writing Centres, the Steacie Library, Personal Counselling, and other services available on campus to support student learning and well-being. Links to some helpful services are available on the course Moodle page in the Communications and Information Zone.

### 8. Grades

Jill Lazenby will calculate grades according to the criteria provided with the assignment, and the weighting in “Evaluation” on p. 2 above. She will not “bump up” or alter the calculation of grades for any reason other than a demonstrable error. She will not provide additional assignments or work in the course, and there are no resubmissions.

Tests are not returned, but students may arrange to meet with Jill to view their graded test in person.

If clarification is required for a grade on the term project, email [nats1565@yorku.ca](mailto:nats1565@yorku.ca) and clearly refer to the criteria on the relevant rubric (attached to your assignment in Moodle) or email for a phone or in-person appointment. If this does not resolve the matter, a student may approach the Division of Natural Science in 218 Bethune to request that the work be regraded by another faculty member. The final grade will be the grade awarded by the other faculty member.

9. Special Circumstances: Students who feel that there are extenuating circumstances that may interfere with the successful completion of any course requirements are encouraged to discuss the matter with Jill Lazenby early in the term. Students with physical, learning, or psychiatric disabilities who require reasonable accommodations in teaching style or evaluation methods should discuss this with Jill Lazenby in May so that appropriate arrangements can be made.

10. Questions and Concerns: Contact Jill Lazenby in person, during drop-in office hours, or by email at [nats1565@yorku.ca](mailto:nats1565@yorku.ca).

## Copyright and Intellectual Property

In order to protect copyright and intellectual property you MAY NOT:

- upload any course content to any website
- share course content with an individual who is not currently enrolled in the course
- obtain course content from past years from a non-York site

Course contents include any documents or files connected to this course, including lecture slides and recordings as well as images, tests, quiz questions, test questions and assignments, as well as any other materials posted to the course Moodle site.

## University Policies

### Important Sessional Dates

Fall classes start: September 5/18

Last date to add a fall course without permission from the instructor: September 18/18

Last date to add a fall course with permission from the instructor: October 2/18

Last date to drop a fall course without receiving a grade: November 9/18

Last date to submit fall term work: December 4/18

Fall classes end: December 4/18

Fall Study Day (no classes; University open): December 5/18

Fall Term examinations: December 6-21/18

### **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](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



**SC/NATS 1565 3.0 A**  
**Plant Life, Human Life**  
**LECTURE SCHEDULE, ASSIGNMENTS AND TEXT CHAPTERS - Fall 2018**  
(subject to minor changes)

<b>Week</b>	<b>Date</b>	<b>Topic and Assignments</b> (All assignments are due by 11:59pm the Monday before the following class)	<b>Chapter References</b> (See Moodle for specific pages and additional links)
1	Sept. 10	Introduction to the Course and to the Plant World <b>Course Outline Quiz</b> <b>Ginkgo selfie assignment</b>	1
2	Sept. 17	Basic Plant Anatomy and Cell Structure <b>Activity #1: Online Quiz</b>	2, 3
<b>September 18 – Last day to add a course without permission from the instructor</b>			
3	Sept. 24	Flowers, Fruit and Seeds Term Project Discussed <b>Academic Integrity Tutorial</b> <b>Activity #2: Getting to know a common fruit (due Friday, October 5)</b>	5, 6
4	Oct. 1	Plants as Food	10, 11
<b>October 2 – Last day to add a course with permission from the instructor</b>			
<b>October 6-12 Fall Reading Week – no class</b>			
5	Oct. 15	Plants and Agriculture <b>Activity #3: Online Quiz</b>	15
6	Oct. 22	Midterm Review and Knowledge Challenge	No Reading
<b>MIDTERM TEST – SATURDAY OCTOBER 27 2pm-4pm</b>			
7	Oct. 29	Plants, Energy and Life: From Photosynthesis to Biofuels	4
8	Nov. 5	Our Daily Fixes: Coffee, Tea Chocolate and Spices <b>Activity #4: Peer Review</b>	16, 17

<b>November 9 – Last day to drop a Fall Term course without receiving a grade</b>			
<b>November 10-December 4 – Course withdrawal period (W will appear on transcript if course is dropped)</b>			
9	Nov. 12	Plant Materials: Textiles, Woods and Resins <i>Plant of the Week: Cotton</i> <b><u>Term Project Due November 18, 11:59pm</u></b>	18
9	Nov. 19	Plants and Human Health	19, 21
10	Nov. 26	Plants that Transform Consciousness <b>Activity #5: Online Quiz</b>	20
11	Dec. 3	Exam Review and Knowledge Challenge	No reading
<b>December 4 – Fall classes end –No term work accepted after this date</b>			
<b>FINAL EXAM - SCHEDULED IN FALL EXAM PERIOD DEC. 6-21 – see Moodle for updates</b>			