



ONEH*1000 Introduction to One Health

Fall 2022

Section(s): C01

Department of Integrative Biology

Credit Weight: 0.50

Version 1.00 - September 07, 2022

1 Course Details

1.1 Calendar Description

This course introduces One Health, an approach to understanding, managing and mitigating local and globally complex societal challenges at the intersection of human, animal and environmental health. The course will examine the scope and integrative nature of One Health and its historical development; explore concepts of health from scientific and socio-cultural perspectives; introduce a basic framework for Open Health inquiry; and relate current challenges such as climate change, pollution and environmental contamination, emerging and zoonotic diseases, antimicrobial resistance, bio- and cultural diversity loss, and food insecurity to a One Health perspective. Key skills such as systems thinking, communication and professionalism in the field of One Health will also be developed.

1.2 Timetable

Please see WebAdvisor for the latest information. In-person or online classes will be held Tuesdays and Thursdays from 11:30am - 12:50pm from Thursday September 8th - Friday December 2nd 2022: Class time will be devoted to introducing key One Health concepts and exploring their applications and implications. Lectures, small and large group discussions, and guest speakers will be incorporated into the class meetings.

Format: Synchronous

1.3 Final Exam

This course will have a final exam. Please see WebAdvisor for the latest information. Information regarding the format of the exam will be posted on CourseLink.

2 Instructional Support

The primary course instructor for this course is Sarah Martone. There is no Teaching Assistant for this course. Instructional support contact information is listed below.

All initial questions regarding course content, assessments (assignments, mid-term exam, final exam), grades, or other course questions or concerns should be directed to the course Instructor. However, as One Health is multidisciplinary and collaborative and there will be guest lectures throughout the course and some of your questions may regard the material taught by them. If there are specific questions for any guest lecturers, Sarah Martone can assist in supporting that communication.

2.1 Instructional Support Team

Instructor:	Sarah Martone MPH, MBS
Email:	smartone@uoguelph.ca
Office:	Virtual/In-person
Office Hours:	Please use email as the first phase of contact with Sarah Martone.

There are currently no set office hours for this course, but you can set up an individual appointment with Sarah Martone via email.

3 Learning Resources

3.1 Required Resources

CourseLink (Software)

<https://courselink.uoguelph.ca>

This course makes extensive use of CourseLink, the University of Guelph's online learning environment. The course website will provide information and updates about the course, including schedules, quizzes, discussions, FAQs, grades and course content.

Please Note: Official final exam information will be posted by the Office of Registrarial Services on WebAdvisor under the Exam Information link. Please check both WebAdvisor and CourseLink for final exam information.

3.2 Recommended Resources

Online Reference Texts (Textbook)

The following recommended texts are all available online through the McLaughlin Library,

University of Guelph: <https://www.lib.uoguelph.ca/>.

Zinsstag, J., Schelling, E., Crump, L., Whittaker, M., Tanner, M., & Stephen, C. (Eds.). (2020). **One Health: the theory and practice of integrated health approaches**. CABI.

Cork S, Hall DC & Liljebjelke K. **One Health Case Studies: Addressing Complex Problems in a Changing World**. 5M Publisher; 2016.

Deem SL, Lane-deGraaf KE, Rayhel EA. **Introduction to One Health: An Interdisciplinary Approach to Planetary Health**. Wiley Blackwell, 2019.

Meadows D. **Thinking in Systems – A Primer**. White River Junction, Chelsea Green Publishing, 2008.

Electronic Resources (Website)

One Health Initiative website at <http://www.onehealthinitiative.com/index.php>.

One Health Commission website at <https://www.onehealthcommission.org/>.

4 Learning Outcomes

The course learning outcomes are based on the One Health Core Competencies established for the University of Guelph. For the purposes of this course, core competencies include an holistic understanding of health, systems thinking, critical thinking, communication, and professionalism in the field of One health.

4.1 Course Learning Outcomes

By the end of this course, you should be able to:

1. Describe the goals of a One Health approach for addressing complex societal challenges and identify its distinguishing attributes
2. Formulate a holistic definition of health that draws on scientific and sociocultural

perspectives

3. Describe the interdisciplinary, systems-based approach used to understand, investigate, disseminate and address problems from a One Health perspective
 4. Identify the strengths and challenges of integrating diverse perspectives to address a problem
 5. Identify possible interconnections between animal, human and environmental health using concept mapping and consider the possible direction and intensity of their interactions.
 6. Identify key health challenges facing society, currently and historically, and determine whether and how they may benefit from a One Health approach
 7. Effectively communicate ideas through a variety of media for a range of audiences
 8. Using select examples of One Health research, identify sources of evidence needed to identify and support a One Health approach
 9. Describe professional attitudes and skills needed in the field of One Health including leadership, networking, ethical considerations, and diversity thinking
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5 Teaching and Learning Activities

Weekly Course Schedule:

Sessions will be delivered synchronously In-Person. Students are encouraged to attend all classes if they wish to be successful in this course.

Sessions have been structured to encourage active learning; in addition to individual work, sessions will prioritize group work such as student-led discussions and activities to facilitate collaborative learning and integrative problem-solving across disciplines. Readings will be provided in advance of all sessions on CourseLink and students are expected to come prepared for each class having read all relevant materials.

Importantly, this integrative course will consider complex societal challenges at the intersection of human, animal, and environmental health, learning outcomes represent building blocks and cross-cutting themes. We will cover specific learning outcomes during specific class sessions, however we will revisit many of these outcomes continually during class discussions and across multiple lectures as students develop core competencies in One Health. The learning outcome(s) covered in each session is/are included within

parentheses.

Guest Lectures:

An important and exciting part of this course will be the presentation of class material by a variety of guest lecturers in the public and private sectors with expertise in One Health. Guest lecturers have been implemented for many important reasons including, but not limited to their ability to: fortify the topics and themes students cover and build on throughout the course; foster student learning in a more interactive, topic-specific manner; foster the true collaborative nature of One Health; example how the topics students are learning about in this course may be channeled into professions; and help students in developing their personal One Health networks. **Confirmed guest lecturers for relevant classes will be posted in CourseLink.**

Missed Semester Work:

If a student misses semester work, the student is to approach the instructor directly to request academic consideration. The student should be in contact with the instructor of the course immediately following the date of the missed work. If the circumstances are affecting multiple courses or are on-going for a significant amount of time, the student should be encouraged to approach a program counsellor for assistance. **Please note***** that three midterm exams in 24 hrs, vacation plans, or work are not grounds for consideration.

6 Assessments

Classes have been designed to foster interactive learning through an online or in-person medium and develop an understanding of and skill-sets pertaining to One Health. Sessions comprise didactic learning by the main instructor and guest lecturers. While student participation is not formerly assessed, it is highly encouraged in this course. Participation includes active listening, posing questions, engaging in classroom discussions and collaborating with peers. Quality of participation is valued over quantity.

As part of this course, there are FOUR assignments (3 individual and 1 group), 1 midterm

exam, and 1 final exam. A synopsis of course assignments and exams is shown below.

IMPORTANT TO NOTE:

- Accommodations for FINAL exams are **NOT THE RESPONSIBILITY OF THE INSTRUCTOR OR TA**, Students missing a final exam are responsible for applying for a deferred exam through their respective Academic Advising Office.
- Due to the ongoing COVID-19 pandemic, the course may change delivery format and as such, the instructor may choose to use the Respondus LockDown Browser to host the midterm and final examinations. This browser is a custom browser that locks down the testing environment in CourseLink. When students use LockDown Browser to access an examination, they are unable to print, copy, go to another URL, access other applications, or close a quiz until it is submitted for grading.
- Be aware that exams are vulnerable to disruption, e.g. internet connectivity issues, etc. Students are instructed to contact CourseLink Support, Phone: 519-824-4120 ext. 56939, Toll Free: 1-866-275-1478 (Canada and USA), Email: courselink@uoguelph.ca, if they experience any unresolvable internet issues.

6.1 Marking Schemes & Distributions

Name	Scheme A (%)
Assignment 1 - Reflection	5
Midterm Exam	20
Assignment 2: One Health Concept-Map	10
Assignment 4: Poster Presentation	20
Assignment 3: One Health Problem Approach Report	20
Final Exam	20
Assignment 4: Part I	5
Total	100

6.2 Assessment Details

Assignment 1 - Reflection (5%)

Due: Fri, Sep 16

Learning Outcome: 1, 2

Due Date: Friday September 16th, by 11:59pm

This is an Individual Assignment.

Your first assignment in this course will be a critical reflection based on how **you** contextualize your relationships with animals, other humans, or the environment - or all of these components; that is *How do you as a human relate to animals/other humans/the environment around us?*. **Additional details will be posted in CourseLink to help guide your reflection.**

Assignment 2: One Health Concept-Map/Infographic (10%)

Due: Fri, Oct 7

Individual Assignment.

Due Date: Friday October 7th 2022 by 11:59pm

A concept map is a visual representation of the relationships among processes, concepts, or, for the purposes of this course, health events. An infographic is a visual representation of information, data and knowledge intended to present information quickly and clearly. Your task in this assignment will be to create a concept map drawing OR an infographic. There will be a single focus/event of interest. Students should clearly show how environmental, social, economic, human, animal, and other factors are related to the event of interest. **More details regarding this assignment will be posted on CourseLink.**

Midterm Exam (20%)

Date: Thu, Oct 13, On-Line or In-Person, class time

Learning Outcome: 1, 2, 3, 4, 5, 7

Individual Exam.

Due Date: Thursday October 13th 2022, will be held during class time 11:30am-12:50pm

Further details regarding the midterm examination will be provided on CourseLink closer to the exam date.

Group Topic and Paper Submission (5%)

Date: Fri, Oct 14

For the group presentation assignment, groups will submit a one page summary of their chosen presentation topic and five academic sources that they will incorporate into their presentation using appropriate sourcing formats.

More information will be available on Courselink closer to the date.

Assignment 3 One Health Journal Summary and Expansion (20%)

Due: Fri, Nov 11
Individual Assignment.

Due Date: Friday November 11th 2022 by 11:59pm

Students will be asked to choose an article from list presented. They will be required to provide a one-page summary of the article, and to also identify a concept, theory, analysis or other element from the article to expand on further.

More details will be provided on CourseLink.

Assignment 4: Oral Group Presentation (20%)

Date: November 15, 17, 22 & 24
Group Assignment.

Due Dates: This assignment will be delivered over **FOUR** days: November 15th, 17th, 22nd and 24th and will be held during class time.

One Health by definition is collaborative. For this assignment, students will be assigned to groups (i.e., of ~ 3-5 members) to foster collaborative engagement and put into practice many of the fundamental principles of One Health including lecture material related to planning, developing, and conducting online presentations. Each group is responsible for presenting a scientific presentation on a topic. The emphasis on this assignment is harnessing skills to **effectively and concisely** communicate complex topics in health. Creativity is **strongly encouraged** and students may choose from a variety of communication modes including PowerPoint presentations, Infographics, pre-recorded videos etc.). Student groups may choose to present one topic from a range of One Health topics including but not limited to: *How can we avoid a future pandemic? Why do novel diseases arise? A One Health Story about... How is One Health important to the preservation of our environment/our planet?* **More information regarding these presentations will be provided on CourseLink**

Assessment will be conducted at the group level and will be based on planning, organization, and delivery of the material.

Final Exam (20%)

Date: During the exam period
Individual Exam.

Due Date: TBA (Date will be in December 2022)

The final examination will cover all of the course material for the semester. The course is scaffolded to provide many diverse learning opportunities that build on existing knowledge. Therefore, the final examination will be summative. Assimilating the information gleaned

from the course material will be the final step to putting all of the One Health foundational pieces together. The examination will provide an excellent opportunity for students to showcase their skill-sets acquired during this Introduction to One Health course. **More details about the final examination will be posted on CourseLink.**

7 Department of Integrative Biology Statements

7.1 Academic Advisors

If you are concerned about any aspect of your academic program:

- Make an appointment with a program counsellor in your degree program. [B.Sc. Academic Advising](#) or [Program Counsellors](#)

7.2 Academic Support

If you are struggling to succeed academically:

- Learning Commons: There are numerous academic resources offered by the Learning Commons including, Supported Learning Groups for a variety of courses, workshops related to time management, taking multiple choice exams, and general study skills. You can also set up individualized appointments with a learning specialist. <http://www.learningcommons.uoguelph.ca/>
- Science Commons: Located in the library, the Science Commons provides support for physics, mathematic/statistics, and chemistry. Details on their hours of operations can be found at: <http://www.lib.uoguelph.ca/get-assistance/studying/chemistry-physics-help> and <http://www.lib.uoguelph.ca/get-assistance/studying/math-stats-help>

7.3 Wellness

If you are struggling with personal or health issues:

- Counselling services offers individualized appointments to help students work through personal struggles that may be impacting their academic performance. <https://www.uoguelph.ca/counselling/>
- Student Health Services is located on campus and is available to provide medical attention. <https://www.uoguelph.ca/studenthealthservices/clinic>
- For support related to stress and anxiety, besides Health Services and

Counselling Services, Kathy Somers runs training workshops and one-on-one sessions related to stress management and high performance situations.

<http://www.selfregulationskills.ca/>

7.4 Personal information

Personal information is collected under the authority of the University of Guelph Act (1964), and in accordance with Ontario's Freedom of Information and Protection of Privacy Act (FIPPA) <http://www.e-laws.gov.on.ca/index.html>. This information is used by University officials in order to carry out their authorized academic and administrative responsibilities and also to establish a relationship for alumni and development purposes.

For more information regarding the Collection, Use and Disclosure of Personal Information policies please see the Undergraduate Calendar.

(<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/intro/index.shtml>)

7.5 Course Offering Information Disclaimer

Please note that course delivery format (face-to-face vs online) is subject to change up to the first-class day depending on requirements placed on the University and its employees by public health bodies, and local, provincial and federal governments. Any changes to course format prior to the first class will be posted on WebAdvisor/Student Planning as they become available.

8 University Statements

8.1 Email Communication

As per university regulations, all students are required to check their e-mail account regularly: e-mail is the official route of communication between the University and its students.

8.2 When You Cannot Meet a Course Requirement

When you find yourself unable to meet an in-course requirement because of illness or compassionate reasons please advise the course instructor (or designated person, such as a teaching assistant) in writing, with your name, id#, and e-mail contact. The grounds for Academic Consideration are detailed in the Undergraduate and Graduate Calendars.

Undergraduate Calendar - Academic Consideration and Appeals

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-ac.shtml>

Graduate Calendar - Grounds for Academic Consideration

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

Associate Diploma Calendar - Academic Consideration, Appeals and Petitions

<https://www.uoguelph.ca/registrar/calendars/diploma/current/index.shtml>

8.3 Drop Date

Students will have until the last day of classes to drop courses without academic penalty. The deadline to drop two-semester courses will be the last day of classes in the second semester. This applies to all students (undergraduate, graduate and diploma) except for Doctor of Veterinary Medicine and Associate Diploma in Veterinary Technology (conventional and alternative delivery) students. The regulations and procedures for course registration are available in their respective Academic Calendars.

Undergraduate Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-drop.shtml>

Graduate Calendar - Registration Changes

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/genreg-reg-regchg.shtml>

Associate Diploma Calendar - Dropping Courses

<https://www.uoguelph.ca/registrar/calendars/diploma/current/c08/c08-drop.shtml>

8.4 Copies of Out-of-class Assignments

Keep paper and/or other reliable back-up copies of all out-of-class assignments: you may be asked to resubmit work at any time.

8.5 Accessibility

The University promotes the full participation of students who experience disabilities in their academic programs. To that end, the provision of academic accommodation is a shared responsibility between the University and the student.

When accommodations are needed, the student is required to first register with Student Accessibility Services (SAS). Documentation to substantiate the existence of a disability is required; however, interim accommodations may be possible while that process is underway.

Accommodations are available for both permanent and temporary disabilities. It should be noted that common illnesses such as a cold or the flu do not constitute a disability.

Use of the SAS Exam Centre requires students to make a booking at least 14 days in advance, and no later than November 1 (fall), March 1 (winter) or July 1 (summer). Similarly, new or changed accommodations for online quizzes, tests and exams must be approved at least a week ahead of time.

For Guelph students, information can be found on the SAS website

<https://www.uoguelph.ca/sas>

For Ridgetown students, information can be found on the Ridgetown SAS website

<https://www.ridgetownc.com/services/accessibilityservices.cfm>

8.6 Academic Integrity

The University of Guelph is committed to upholding the highest standards of academic integrity, and it is the responsibility of all members of the University community-faculty, staff, and students-to be aware of what constitutes academic misconduct and to do as much as possible to prevent academic offences from occurring. University of Guelph students have the responsibility of abiding by the University's policy on academic misconduct regardless of their location of study; faculty, staff, and students have the responsibility of supporting an environment that encourages academic integrity. Students need to remain aware that instructors have access to and the right to use electronic and other means of detection.

Please note: Whether or not a student intended to commit academic misconduct is not relevant for a finding of guilt. Hurried or careless submission of assignments does not excuse students from responsibility for verifying the academic integrity of their work before submitting it. Students who are in any doubt as to whether an action on their part could be construed as an academic offence should consult with a faculty member or faculty advisor.

Undergraduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/undergraduate/current/c08/c08-amisconduct.shtml>

Graduate Calendar - Academic Misconduct

<https://www.uoguelph.ca/registrar/calendars/graduate/current/genreg/index.shtml>

8.7 Recording of Materials

Presentations that are made in relation to course work - including lectures - cannot be recorded or copied without the permission of the presenter, whether the instructor, a student, or guest lecturer. Material recorded with permission is restricted to use for that course unless further permission is granted.

8.8 Resources

The Academic Calendars are the source of information about the University of Guelph's procedures, policies, and regulations that apply to undergraduate, graduate, and diploma programs.

Academic Calendars

<https://www.uoguelph.ca/academics/calendars>

8.9 Disclaimer

Please note that the ongoing COVID-19 pandemic may necessitate a revision of the format of course offerings, changes in classroom protocols, and academic schedules. Any such changes will be announced via CourseLink and/or class email.

This includes on-campus scheduling during the semester, mid-terms and final examination schedules. All University-wide decisions will be posted on the COVID-19 website

(<https://news.uoguelph.ca/2019-novel-coronavirus-information/>) and circulated by email.

8.10 Illness

Medical notes will not normally be required for singular instances of academic consideration, although students may be required to provide supporting documentation for multiple missed assessments or when involving a large part of a course (e.g.. final exam or major assignment).

8.11 Covid-19 Safety Protocols

For information on current safety protocols, follow these links:

- <https://news.uoguelph.ca/return-to-campus/how-u-of-g-is-preparing-for-your-safe-return/>
- <https://news.uoguelph.ca/return-to-campus/spaces/#ClassroomSpaces>

Please note, these guidelines may be updated as required in response to evolving University, Public Health or government directives.
