

# One Health Summer Institute 2022

## Course Outline

*Information in this document is subject to change.*

### PROGRAM OVERVIEW

**One Health Summer Institute (OHSI) 2022** is an in-person **2-week summer program for domestic and international students** seeking an opportunity to explore the concept of One Health as a multisectoral, systems-based and collaborative approach to complex problems. This will be a class and field-based program using complex agro-ecological systems as a case study.

- ❖ **Dates:** June 11-24, 2022
- ❖ **Time:** Everyday, 9:00 am – 5:00 pm (Mountain Time)
- ❖ **Format:** In-person classroom sessions and field trips
- ❖ **Length:** 14 full-days, 98 hours, Non-credit
- ❖ **Location**

Sessions will be held in a lecture room on UCalgary campuses in [Barrier Lake Field Station in Kananaskis](#) (week 1) and [UCalgary Taylor Institute](#) (Week 2).

Field trips will be held in different locations such as Kananaskis trail, WA Ranch, Soderglen Ranch, Simon Farm and Float the Bow River.
- ❖ **Program Fee**

Program fee includes instruction, learning materials, accommodation at Kananaskis campus (June 11-17,2022), food, and transportation for field trips.

Participants must arrange their own accommodation in Calgary for June 18-24, 2022. For more information visit UCalgary Accommodations for short-term stays: <https://www.ucalgary.ca/ancillary/accommodations-and-events/accommodations>
- ❖ **Number of participants:** Min 10, Max 30
- ❖ **Eligibility**

There are no prerequisites to participate. This program is open to students, adult learners and professionals from all over the world (Domestic and international). Ability to understand and communicate in English is required.
- ❖ **Certificate**

A certificate of completion will be given to students who participate in 80% of the sessions.
- ❖ **How to register:** Click [here](#).

## PROGRAM DETAILS

### ❖ **Background**

Complex global challenges exist at the intersection of people, animals, and the environment. A One Health (OH) approach to complex problems considers all the components of a system, their relationships and their dependencies. The social and ecological contexts of complex problems must be understood to find sustainable and acceptable solutions.

### ❖ **Vision**

After this course, students will see that there are solutions to complex problems and that they can be part of the solution. With a greater understanding of how to approach a difficult challenge, the students will be empowered to find the necessary resources and see opportunities for a role for themselves.

### ❖ **Goals**

In this program students will learn that change is possible and that they have a role to play in that change. Using agro-ecosystem challenges as a case study, participants will learn how scientific inquiry from different disciplinary perspectives and engaging people on all sides of the challenge can lead to more constructive, sustainable, and socially just solutions. Students will work to develop the necessary skills that will enable them to contribute meaningfully to transdisciplinary teams.

### ❖ **Learning Outcomes**

At the end of the 2-week program, participants will:

- Develop a holistic understanding of problems:
  - Practice seeing the social, economic, and ecological context of One Health problems
  - Exercise mapping the components of the problem including the importance of the connections between the components
  - Apply a conceptual understanding of One Health to complex agro-ecosystem problems
  - Discover what data and information across system components are necessary to understand the system and inform policy and practice
  - Discover the value that diverse perspectives bring to the problem
  - Value Indigenous ways of knowing in Canadian One Health problem solving and research
- Practice working collectively (co-leadership, team building, collaboration, and governance) and develop these skills.
- Find opportunities to leverage their disciplinary training and consider actions to make a difference

## SCHEDULE

#	DAY	DATE	TOPICS	INSTRUCTOR(S)	LOCATION
1	Sat	June 11	Meet at UCalgary and travel to Kananaskis <ul style="list-style-type: none"> <li>Welcome</li> <li>Introductions</li> <li>Why this course?</li> <li>What do we mean by a system?</li> <li>Why One Health?</li> </ul>	<a href="#">Michele Anholt</a> <a href="#">Craig Stephen</a> <a href="#">Kelly Munkittrick</a>	<a href="#">Barrier Lake Field Station in Kananaskis</a>
2	Sun	Jun 12	Mini case-based learning Challenges in the global food systems <ul style="list-style-type: none"> <li>Exploring social-ecological changes and sustainable futures for agriculture</li> </ul>	Michele Anholt Craig Stephen Kelly Munkittrick <a href="#">Alex Wilkinson</a> <a href="#">Tatenda Mambo</a> <a href="#">Craig Gerlach</a>	Kananaskis
3	Mon	June 13	Perspectives of a rancher <ul style="list-style-type: none"> <li>Working in teams and start to develop concept map of agro-social-ecological systems</li> </ul>	Scott Lees Michele Anholt Fred Wrona Kelly Munkittrick	Kananaskis
4	Tues	June 14	Introduction to aquatic ecosystem health <ul style="list-style-type: none"> <li>The value of a trout (multiple perspectives)</li> </ul>	Fred Wrona Kelly Munkittrick Elder Michele Anholt	Kananaskis
5	Wed	June 15	Challenges in aquatic monitoring <ul style="list-style-type: none"> <li>Decision making</li> <li>Holistic perspectives</li> </ul>	Fred Wrona Kelly Munkittrick Elder Michele Anholt	Kananaskis
6	Thurs	June 16	Community Engagement <ul style="list-style-type: none"> <li>Blessing and smudge ceremony</li> <li>Circle discussion – creating a shared and ethical space through Indigenous Ways</li> <li>Elder storytelling circles and nature walks</li> <li>Tea dance with Elders and drummers</li> <li>Closing blessing</li> </ul>	Elder <a href="#">Reg Crowshoe</a> Elder Rose Crowshoe Other Elders Traditional Drummers <a href="#">Susan Mide Kiss</a> Michele Anholt Fred Wrona Kelly Munkittrick	Kananaskis
7	Fri	June 17	One Health leadership and team building <ul style="list-style-type: none"> <li>Skills for collaboration</li> </ul>	<a href="#">Jolene Ondrik</a> Michele Anholt Fred Wrona	Kananaskis

			<ul style="list-style-type: none"> <li>• Collective leadership</li> <li>• Team building</li> </ul>	Kelly Munkittrick	
8	Sat	June 18	<p>Transformation and systems change</p> <ul style="list-style-type: none"> <li>• How to change the world</li> <li>• Influencing change in agriculture</li> <li>• Building on talents, relationships and networks</li> </ul>	<p>Jolene Ondrik  <a href="#">Caroline Ritter</a>  Michele Anholt  Fred Wrona  Kelly Munkittrick</p>	<p>Kananaskis  Return to  Calgary in PM</p>
9	Sun	Jun 19	<p>WA Ranches</p> <ul style="list-style-type: none"> <li>• Overview Cow-Calf systems</li> <li>• Wildlife interactions</li> <li>• Environmental impacts</li> </ul> <p>Soderglen Ranch visit</p> <ul style="list-style-type: none"> <li>• Tour of production systems on ranch</li> <li>• Water and waste management</li> <li>• Collaborations with Ducks Unlimited</li> </ul>	<p><a href="#">Craig Dorin</a>  <a href="#">Mathieu Pruvot</a></p> <p><a href="#">Scott Lees</a>  Michele Anholt  Fred Wrona  Kelly Munkittrick  Ducks Unlimited</p>	<p>Field trips:  <a href="#">WA Ranch</a></p> <p><a href="#">Soderglen Ranch</a></p>
10	Mon	June 20	<p>Water and wastewater</p> <ul style="list-style-type: none"> <li>• The Bow River ecosystem</li> <li>• City of Calgary regulatory framework</li> </ul>	<p>Fred Wrona  Kelly Munkittrick  Michele Anholt</p>	<p>Float the Bow</p>
11	Tues	June 21	<p>Regenerative agriculture  The path forward:</p> <ul style="list-style-type: none"> <li>• Nature-based Solutions</li> <li>• Innovation</li> </ul>	<p>Craig Gerlach  Tatenda Mambo</p>	<p>Simon Farm</p>
12	Wed	June 22 AM  PM	<p>Essentials of communications,  How to tell your story to inspire  change</p> <p>Work on presentations</p>	<p>Jay Ingram (not confirmed)  Michele Anholt  Fred Wrona  Kelly Munkittrick</p>	<p>UCalgary  <a href="#">Taylor Institute for teaching and learning</a></p>
13	Thurs	June 23 AM	<p>Healthy public policy in One  Health</p>	<p><a href="#">Lorian Hardcastle</a>  Michele Anholt  Kelly Munkittrick  Fred Wrona</p>	<p>UCalgary,</p>
14	Fri	June 24	<p>Group Presentations</p>	<p>Michele Anholt  Lorian Hardcastle  Kelly Munkittrick  Fred Wrona</p>	<p>UCalgary</p>