



THE UNIVERSITY OF BRITISH COLUMBIA

Institute for Resources, Environment and Sustainability
Faculty of Science

IRES VANCOUVER SUMMER PROGRAM 2022

LEARN | EXPLORE | TRAVEL | CONNECT



4-week academic program at UBC in Vancouver, BC, Canada
Social and cultural activities (tours, museums, games, sports, and more!)
Group airport pick-up/drop-off and shared accommodations on UBC campus

June 6 - July 6, 2022 | ONLINE

Sustainable Futures



ANALYZING ECOLOGY, THE ENVIRONMENT AND YOU

Ecosystems and the benefits they provide to people lie at the heart of many sustainability issues. Students in this course will gain expertise on the processes by which ecosystems render benefits for people (ecosystem services), methods for analyzing impacts and benefits, and the ways that individuals and organizations incorporate such information into their decision-making.



DECISION-MAKING ABOUT OCEANS IN THE 21ST CENTURY

In this course, simulations and workshops will help students consider the variety of stakeholders involved in decision-making related to ocean conservation. You will be trained to tackle our rapidly changing global environment and the often conflicting role of oceans in biodiversity conservation, food security, climate change, and ecosystem services to humans.

**June 6 - July 6, 2022 | ONLINE or
July 16 - August 16, 2022 | IN-PERSON**

Climate Change and the Energy Transition



CLIMATE CHANGE: CAUSES, CONSEQUENCES AND ADAPTATION

Climate change resulting from the use of fossil fuels in the global energy system is perhaps the single greatest collective challenge facing society in the 21st century. Acting on climate change will dramatically alter the global economy and job creation sectors. This course will prepare students for employment opportunities associated with climate change.



ENERGY FOR SUSTAINABLE DEVELOPMENT

Climate change is only one of many challenges we face, and innovation in energy systems will be needed to reduce greenhouse gas emissions. In this course, you will build your ability to communicate with professionals about what is driving these innovations, how might their promise be reached and their benefits be maximized, and what social and policy efforts are needed to sustain them.

July 16 - August 16, 2022 | IN-PERSON

Food for a Healthy and Sustainable Planet



SUSTAINABLE FOOD AND FARMING SYSTEMS

Our food and farming systems are one of the greatest causes of global environmental problems. In this course, lectures and assignments will incorporate data science allowing students to understand how experts use quantitative techniques in sustainable farming solutions. Students will uncover stories on what the data tells us about sustainable intensification, organic farming,



SUSTAINABLE DIETS AND NUTRITION

Nearly 1 in 7 people today remain undernourished, while 2 billion are malnourished. Students interested in public health, global health, medicine and health systems management will learn why a nutritious diet is critical to raising the quality of life of a large section of the world's population. This course emphasizes communication skills regarding the contemporary sustainability debates.

Learn more at: ires.ubc.ca/courses/vancouver-summer-program