



## **SFU Explorations Day Tuesday, May 10, 2022**

SFU Explorations Day is back! This year, high school students have the chance to explore new adventures in online learning through a wide range of science, humanities and social science classes. Explorations Day is currently open to the Burnaby School District only.

SFU Faculty of Arts and Social Sciences

### **What do we mean when we talk about Street Trees?**

**Hosted By: FASS in the Class**

**Tuesday, May 10, 2022**

**9:00am – 10:00am**

**Register here to receive Zoom link:** <https://www.eventbrite.ca/e/sfu-fass-in-the-class-what-do-we-mean-when-we-talk-about-street-trees-tickets-301638989337>

**Email Inquiries:** [fass\\_rec@sfu.ca](mailto:fass_rec@sfu.ca)

Are street trees part of the "urban forest"? What valuable services do the trees on our streets offer the city and humans? As urban communities and climate activists look to trees as a way to mitigate the impacts of global warming, we often consider only how trees benefit humans. Through a series of examples from global cities, this presentation invites participants to consider the multi-species relationships to the trees around us and asks not what trees can do for humans, but what humans can do for the trees.



## Tales of Rubbish Thinkers

Hosted By: FASS in the Class

Tuesday, May 10, 2022

1:00pm – 2:00pm

Register here to receive Zoom link:

<https://www.eventbrite.ca/e/sfu-fass-in-the-class-tales-of-rubbish-thinkers-tickets-301661336177>

Email Inquiries: [fass\\_rec@sfu.ca](mailto:fass_rec@sfu.ca)

This session offers an introduction to the ways we think and write about waste and how we value beginnings and endings. Participants engage with the ideas of philosophers and artists who question the way we cast aside some items as worthless. Attendees will explore these narratives and question ideas of waste as an end-point, approaching the idea that "waste" is not so much what we do but rather how we think.



## Virtual Reality: Keeping us Together, Kilometers Away

Hosted By: FASS in the Class

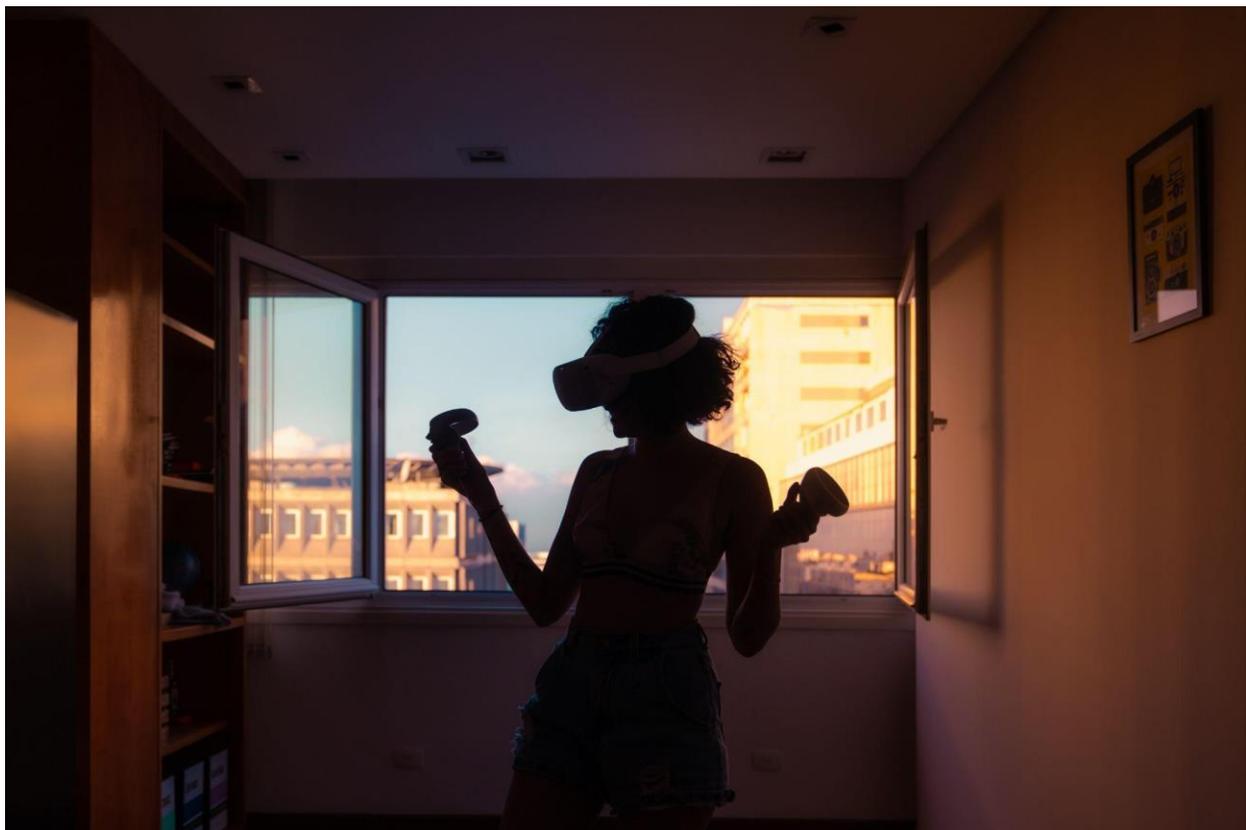
Tuesday, May 10, 2022

10:00am – 11:00am

Register here to receive Zoom link: <https://www.eventbrite.ca/e/fass-in-the-class-virtual-reality-keeping-us-together-kilometers-away-tickets-301664967037>

Email Inquiries: [fass\\_rec@sfu.ca](mailto:fass_rec@sfu.ca)

Over the last decade, virtual reality has increased in popularity among academic and industry professionals. Unsurprising, many have come to see the potential for VR technology to promote human connections across the planet. Already, it is being used to create digital training platforms, virtual communities, research environments for studying human psychology, and of course, games. In this workshop, you will be introduced to a variety of ways in which virtual reality has been used to advance human interests, with a special emphasis on research being done by labs at Simon Fraser University. Participants will be shown how they can join the conversation online, as well as how they can use freely available online tools to build their social environments.



## Conspiracy Theories: A Philosophical Approach

Hosted By: FASS in the Class

Tuesday, May 10, 2022

11:00am – 12:00pm

Register here to receive Zoom link: <https://www.eventbrite.ca/e/sfu-fass-in-the-class-conspiracy-theories-a-philosophy-approach-tickets-301676752287>

Email Inquiries: [fass\\_rec@sfu.ca](mailto:fass_rec@sfu.ca)

Conspiracy theories have been increasingly popular over the past several years. Why might this be the case? What are conspiracy theories? Why are they so appealing to many people? Can they be defended? What are their social and political implications? This talk aims to contemplate these questions from a philosophical perspective.



## It's a Fact! Or is it? The Turbulence of Gender

Hosted By: FASS in the Class

Tuesday, May 10, 2022

2:00pm – 3:00pm

Register here to receive Zoom link: <https://www.eventbrite.ca/e/sfu-fass-in-the-class-its-a-fact-or-is-it-the-turbulence-of-gender-tickets-301671105397>

Email Inquiries: [fass\\_rec@sfu.ca](mailto:fass_rec@sfu.ca)

Many societies and cultures think of gender as a system of binaries. But is gender really all that certain? What about those who do not fit into either of the two boxes? And how do different theories about gender help to shed light on these questions? It is an important topic to explore because the gender binary helps to create and sustain social hierarchies – including harmful ones. It is a key factor in perpetuating power, privilege, and status. However, there are always those who speak up and speak out to challenge the gender binary system in the struggle for equality, social justice, and fairness. Come and explore the turbulence of ideas in this important conversation.



SFU Faculty of Applied Science

## **Circular Economy Candy Creations**

**Hosted By:** Science All!ve

**Tuesday, May 10, 2022**

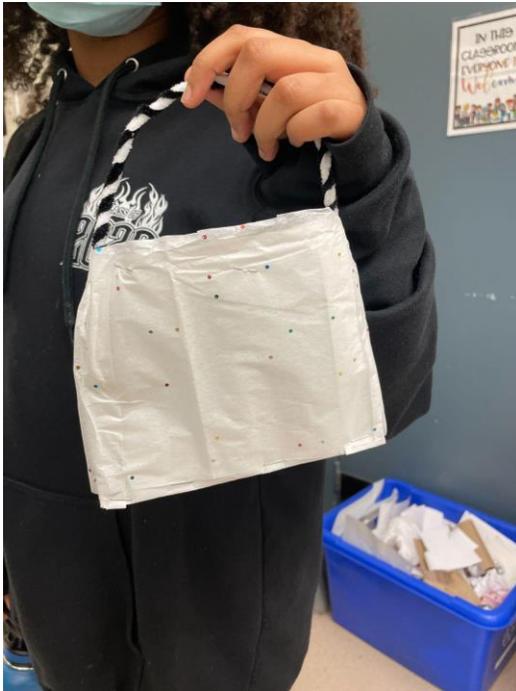
**1:00pm – 2:30pm**

**Register here to receive the Zoom invite:** <https://www.eventbrite.ca/e/309929987937>

**Email inquiries:** [fascoord@sfu.ca](mailto:fascoord@sfu.ca)

Please join us for an engaging discussion that will weave together principles of circular economy, sustainable engineering, and Indigenous worldviews. Indigenous groups have used the concept of a circular economy since time immemorial by sharing, reusing, repairing and recycling existing materials. Learn about these ideas, and explore how they get put into action by engineers who design sustainable and reusable plastic packaging!

This session is best for learners in Grades 6-9 and prompts investigation into personal and professional relationships, economic participation, and environmental awareness to meaningfully promote and support life on an interconnected planet.



SFU Faculty of Science

**A Glimpse into the Digestive and Nervous System**

**Hosted By: SFU Science in Action**

**Tuesday, May 10, 2022**

**9:00am – 10:00am**

**Register here to receive the Zoom invite:**

<https://www.eventbrite.ca/e/youth-focused-science-workshops-with-sfus-science-in-action-program-tickets-307187224257>

**Email inquiries: [sfuscienceoutreach@sfu.ca](mailto:sfuscienceoutreach@sfu.ca)**

Curious about the digestive and nervous systems? In this hands-on demonstration, students will have an opportunity to explore aspects of human anatomy, such as how our bodies digest different foods, how our nervous system helps control our body, and some mind-boggling brain tests. For the best experience, students should come prepared with two paper cups, a plastic tray/bowl, a sealable Ziploc bag, ½ pair of nylon socks, orange juice, crackers, and a banana.



## Chemistry in Action

Hosted By: SFU Science in Action

Tuesday, May 10, 2022

10:15am – 11:45am

Register here to receive the Zoom invite:

<https://www.eventbrite.ca/e/youth-focused-science-workshops-with-sfus-science-in-action-program-tickets-307187224257>

Email inquiries: [sfscienceoutreach@sfu.ca](mailto:sfscienceoutreach@sfu.ca)

In this interactive session, students will get to explore a wide variety of chemistry topics, from acids and bases to the difference between endo- and exothermic reactions. Students will watch a special demo featuring liquid nitrogen — which sits at negative 196 degrees Celsius and must be handled with care — and experience how acid/base reactions can create a myriad of colours right in front of their eyes!



## Critical minerals and their importance to a green energy transition

Hosted By: SFU Science in Action

Tuesday, May 10, 2022

12:30pm – 1:30pm

Register here to receive the Zoom invite:

<https://www.eventbrite.ca/e/youth-focused-science-workshops-with-sfus-science-in-action-program-tickets-307187224257>

Email inquiries: [sfscienceoutreach@sfu.ca](mailto:sfscienceoutreach@sfu.ca)

Students will learn about the common use of critical minerals in everyday life and why they are essential in the future of clean energy in this self-guided discussion. In addition, students will get to study the minerals' properties and identify the social and environmental impacts of critical minerals extraction.



## Catalase and Enzymes

Hosted By: SFU Science in Action

Tuesday, May 10, 2022

1:45pm – 2:45pm

Register here to receive the Zoom invite:

<https://www.eventbrite.ca/e/youth-focused-science-workshops-with-sfus-science-in-action-program-tickets-307187224257>

Email inquiries: [sfscienceoutreach@sfu.ca](mailto:sfscienceoutreach@sfu.ca)

Experience enzymes in action by producing oxygen inside a test tube! In this lab, students will use biological samples that contain the enzyme catalase to observe the following chemical reaction:  $2 \text{H}_2\text{O}_2 \rightarrow 2 \text{H}_2\text{O} + \text{O}_2$ . Students will have the opportunity to think like a scientist - by changing experimental variables and monitoring bubble formation in test tubes, students can measure the production of oxygen gas and determine its effect on enzymatic activity

