

# SFU APPLIED SCIENCES OUTREACH & SCIENCE ALIVE FREE YOUTH PROGRAMS



## STEM SPEAKER SERIES

The STEM Speaker Series provides high school students with the opportunity to meet and interact with university students, faculty members, and/or working professionals in STEM fields. See topics for September and November below. You can also check out past and future events [here](#).

### Cybersecurity

Sept 23, 2023 | 1:00 pm - 2:00 pm | Grade 8-12

Our guest speaker for September is Jeff Rusk, who is a cybersecurity professional at the International Business Machines Corporation (IBM). Jeff's talk will introduce cybersecurity concepts and their importance as our world becomes increasingly digitalized. Join this talk to learn more!

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### Network Neuroscience

Nov 25, 2023 | 1:00 pm - 2:00 pm | Grade 8-12

Our guest speaker for November is Justine Hansen, who is a graduate student at McGill University in the Network Neuroscience lab. Justine's research explores how different spatial scales interact in the brain: from molecular mechanisms to dynamics to cognition. Join this talk to learn more!

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## HOURL++ OF CODE

The Hour Plus Plus of Code event features various one-off workshops for school-age students to learn how to code and implement popular digital tools. Between Sept to Nov 2023, we will be offering multiple online workshops on various topics ranging from user interface and experience design, programming logic foundations (in Python and Java), mobile app development, and game development. Please review the overview and requirements document for each workshop before registering. Not sure if coding is for you? Join us for these workshops and let us change your mind!

### Java Basics

Sept 16, 2023 | 10:00 am - 12:00 pm | Grade 9-12

The Java basics workshop is open to Grade 9-12 students who are interested in learning the basics of the Java programming language and best practices in programming. This workshop will cover Java syntax, data types, variables, and conditionals and will use [Google Colaboratory](#). Don't forget to review the [workshop overview and requirements](#) before registering!

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### Python Basics

Sept 23, 2023 | 10:00 am - 12:00 pm | Grade 8-12

The Python basics workshop is open to Grade 8-12 students who are interested in learning the basics of the Python programming language and best practices in programming. This workshop will cover Python syntax, variables, conditionals, and loops. It is beginner friendly and will use [Google Colaboratory](#). Don't forget to review the [workshop overview and requirements](#) before registering!

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## Turtle Graphics in Python

Oct 14, 2023 | 10:00 am - 12:00 pm | Grade 8-12

The Turtle Graphics in Python workshop is open to Grade 8-12 students. This workshop will introduce students to coding concepts through creating pictures and shapes on a virtual canvas using the Python turtle library. It is a fun and interactive way to learn programming for beginners. This workshop will use [Google Colaboratory](#). Don't forget to review the [workshop overview and requirements](#) before registering!

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## UX & UI Design

Oct 21, 2023 | 10:00 am - 12:00 pm | Grade 6-12

The UX & UI Design workshop is open to Grade 6-12 students who are interested in creating designs for mobile and web interfaces. Students will learn about the importance of user interface and user experience design and use the browser-based design tool, [Figma](#), to prototype a mobile app. Don't forget to review the [workshop overview and requirements](#) before registering!

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## Intro to HTML & CSS

Oct 28, 2023 | 10:00 am - 12:00 pm | Grade 8-12

The Intro to HTML & CSS workshop is open to Grade 8-12 students who are interested in learning the basics of HTML and CSS and how to use them for making web pages. This workshop is beginner-friendly and will use [CodePen](#). Don't forget to review the [workshop overview and requirements](#) before registering!

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## Mobile App Dev

Nov 4, 2023 | 10:00 am - 12:00 pm | Grade 8-12

The Mobile App Dev workshop is open to Grade 8-12 students who are interested in how to plan, prototype, and code a mobile app. This workshop is beginner-friendly and will use [Thunkable](#), which is a drag-and-drop app builder. Don't forget to review the [workshop overview and requirements](#) before registering!

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## Python for Game Dev

Nov 18, 2023 | 10:00 am - 12:00 pm | Grade 9-12

The Python for Game Dev workshop is open to Grade 9-12 students who are interested in learning about the elements of game design and how to code a [text-based game](#) using Python. This workshop will use [Google Colaboratory](#). We recommend not signing up for this workshop if you have completed the [Spring 2023 Game Design & Dev program](#) since this is an introductory workshop to game development. Don't forget to review the [workshop overview and requirements](#) before registering!

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Interested in hearing more about Science ALIVE programs throughout the year? Sign-up for our monthly newsletter which lists our current free and paid youth programs in a community near you as well as teacher professional development opportunities and resources.

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Interested in working or volunteering with Science ALIVE? Check out our application pages for more information.

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