



Early Learning Labs

Years 5 and 6

2 DAY WORKSHOPS

6-7 JULY 2021

CREATIVE CODING WITH UNITY

PRESENTER: DEVIKA | NON-STANDARD FEE \$200



Learn the basics of an essential and in-demand 21st century skill - coding. This workshop will get you started with the basics of a computer science course built with Unity Development. Learn how to code, reason systematically, build with drag and drop development, work in teams and solve problems.

HEARTBEATS, BREATHING AND BONES: ANATOMY OF THE HUMAN BODY

PRESENTER: THERESA LARKIN

If you are interested in a career in medicine or curious about what is inside our body and how our body works, then this workshop will be a fantastic introduction. We will examine muscles, bones and the skeleton in the Physiology lab. You'll be introduced to the Medicine lab where our future nurses and doctors train, to learn about how the heart and lungs work, and the path of food through our body.

AN INTRODUCTION TO BUILDING VIDEO GAMES

PRESENTER: ALEX KELLY & TRISTAN TAYLOR



We all love video games! They're one of the most popular forms of entertainment across the globe - so - keen to make your own? This workshop is a crash course introduction into the world of game construction. Learn to draw your own game art, create your own special effects and of course, tie it all together with some programming! Time to construct your own game!

LEFT BRAIN - RIGHT BRAIN

PRESENTER: VAL MANN

Learn about the benefits and deficits of your own - and others' - learning preferences. Take the (very brief) test and find out! What are the implications and how can you apply the strengths of your learning style to maximise your potential. Can you modify, grow or change your natural tendencies? Enjoy some basic exercises to see if you can. How can you benefit from others who are totally different in their thinking to you? What is the left brain - right brain theory and its implications for maths instruction? What can you expect to be strong at and how can you become strengthen your supposed weaknesses. What does it mean if you're in the centre of the left and right brain? Fun, informative, enlightening and broadening for all thinking students.

MAY THE FORCE BE WITH YOU

PRESENTER: MADDIE CARR

Force is one of the key concepts used by physicists to describe the world...but what exactly is it? Find out in this hands-on workshop where you'll use everyday objects and special equipment to experiment with force, gravity, magnetism, friction, buoyancy, air resistance and more! We'll do fun practical tests, learn to use physics language and make animated videos to explain our results!

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MOMENTUM MATHEMATICS

PRESENTER: LIZA UNITY

It's like magic with maths! Learn the secrets of speed mathematics and amaze yourself, your family and friends when you discover the world of mentally multiplying very large numbers faster than you could tap your calculator! These skills will improve your memory, speed and accuracy with numbers, help you recognise patterns and keep your brain muscles alive! The Momentum Maths workshop will promote your confidence, offer you a real understanding of numbers, increase your mental agility & intelligence and most importantly, sharpen your mind! Bring your calculator (just for checking, not doing!)

PAPER ROLLERCOASTERS

PRESENTER: PATRICK DE VUONO

How much fun are rollercoasters?!! Ever thought about designing your own? Well now you can out of paper and tape in this fun-filled workshop which will teach you all about STEM / STEAM based design principles. Don't let the paper and tape fool you - these rollercoasters you build will be able to go down hills, through tight curves, into funnels and even do loops!

THE MONSTER WORKSHOP OF MONSTERS

PRESENTER: SAMSON SOULSBY

Werewolves and zombies and ghouls, oh my! If you love to read and write, and you're not afraid of things that go bump in the night, this is the workshop for you!

This workshop is all about building skills in English literature/media analysis and creative thinking and writing by looking at monsters in fiction and history. Monsters frighten us and fascinate us, and we use them to explore and define what makes us human. In this workshop, students will discuss a range of audio/visual and written mediums and consider how these texts invite us to reflect on ourselves and our world.

What is a monster? Who is a monster? Why do we make monsters? Come along to this workshop to find out!

WELCOME TO HOGWARTS

PRESENTER: LYNDALE REID

Professor Dumbledore and the other professors at Hogwarts invite you to spend two days with us taking part in a wide variety of Special Lessons involving, art, writing, drama and creative building. You are welcome to come dressed as your favourite student

We will visit Diagon Alley to collect our wizarding materials and get sorted by the sorting hat into your house (not necessarily the house you expect - the sorting hat knows best!). There will be classes in Transfiguration, Potions & Charms and herbology. The trivia challenge will give you a chance to impress us with your knowledge of Harry Potter (1st Book /Movie). All you need is your imagination, your creativity, your great ideas and to be prepared for fun and excitement.

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1 DAY WORKSHOPS

8 JULY 2021

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CREATIVE KIDS VOUCHER ACCEPTED

A DAY WITH HARRY P.

PRESENTER: HELEN DUDENEY

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Professor Dumbledore is inviting you to spend a day at Hogwarts! Dress as your favourite Harry Potter student as you take on special lessons in art, writing, drama and creative building. You'll visit Diagon Alley, be sorted into your house by the sorting hat, play trivia (1st book/movie) and take classes in transfiguration, potions and charms, and herbology!

AN INTRODUCTION TO PROBLEM SOLVING: CHESS

PRESENTER: JOHN FINLAYSON

Have you ever wanted to be the best at games, learning how to get ahead using strategy and tactics? In this class, students will be challenged to learn quickly how they may improve their game, while appreciating the ancient game of chess. For this workshop it is expected that you have a prior knowledge of the game, understand what each piece is and how they move on the board. The concepts covered will include; sportsmanship, appreciation of the game, defence, offence, problem solving, and learning techniques.

BLOOMIN' IN MATHEMATICS

PRESENTER: RIANNA LE

In this workshop students will gain an understanding of what Higher Order Thinking is, using activities involving fractions and money. We'll be using Bloom's Taxonomy to learn what 'good questions look like' using a creative style of thinking. You'll use a series of questions that will get harder and help you use your thinking processes.

BUILDING WITH BLENDER

PRESENTER: LOST NIGHT STUDIOS

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Want to design spaceships, or help make animated films and video games? In this class, you'll learn technical computer skills and create your own 3D models, a skill which you can continue to practice at home for free thanks to Blender being freely available for download. Students will also get a chance to bring home a 3D printed name tag, and you will be able to keep the Blender files if you bring a USB.

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CRIMINOLOGICAL CAPERS

PRESENTER: HELEN SIMPSON | YEARS 4 - 6

Budding detectives, crime prevention officers, victimologists and crime scene investigators - this could be the course for you. As part of this workshop you will get to solve a crime scene - sifting through forensic clues and picking who the offender is from a number of suspects. Then you will be asked to think about what makes some people become criminals or victims and why some places are more prone to crime than others. It's a day-long taste of criminology - for those who like to solve puzzles, think laterally and analyse what they see around them.

EXPLORING ECOLOGY

PRESENTER: CARINA TOBIA

Are you fascinated by the natural world around us? If so, join us for this fun workshop! Take a journey to planet Earth's unique ecosystems, from coral reefs to forests. Explore the fascinating ways plants and animals interact through food chains and food webs. Through experiments you will investigate how we impact our oceans. You will also observe unique plant and insect specimens, create classification keys and identify species by their scientific names.

You will be working in one of the University's labs so make sure you wear closed in shoes for your safety. Interactive and interesting, Exploring Ecology will inspire you to see the natural world in a whole new light!



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FANTASTIC BEASTS & WHERE TO FIND THEM

PRESENTER: THEA STONEMAN



Inspired by the Harry Potter book of the same name, this workshop will explore magic and mythological creatures from around the globe, culminating in participants creating their own fantastic beast.

HOW TO WIN AN ARGUMENT - DEBATING & PUBLIC SPEAKING

PRESENTER: BRODIE KNOX



Arguments are made with some talent, but mainly skill. Like everything, it takes practice & lessons, but it's the best skill to have in a classroom or on the playground. Learn how to express your thoughts, how to grab people's attention, and how to know which arguments you can win. Warning: It won't be the arguments against your parents, they know how to change the Wi-Fi password.

LET'S MAKE THINGS UP!

PRESENTER: HELENA FOX



One of the best parts of creative writing is making things up. As storytellers, we can imagine anything and put it into a story—we can create fantastical places, imaginary objects, and bizarre characters, as well as invent new laws of science! In this workshop, we will explore writing the incredible and the magical. We will dabble in fantasy, science fiction, and do lots of world-building. We will create things and then play with our creations like the brilliant storytellers and inventors we are.

THE DROID BUILDING SCHOOL

PRESENTER: GERARDO MONTOYA GURROLA



Have you ever wondered how robots work or communicate? This is your opportunity to learn to communicate with robots and teach them to develop tasks, learn to assemble, program and use sensors. Nobody knows but maybe you are the next Tony Stark or a Jedi droid builder. In this workshop you will learn the true use of mathematics and science while navigating in virtual worlds and using real competition robots to prove that your design is the best. We will be using Vex VR Software, no need to bring your devices as you'll be working in one of UOW's computer labs. Are you ready for the challenge?

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STAY CONNECTED WITH LEARNING LABS



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Email us
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Give us a call
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