

Institute of Coding Skills Bootcamp

Creative Coding

Location: Online **Cost:** Free

Contact Hours: One evening per week, 10 weeks

Synopsis:

In the Creative Coding micro-credential you will learn how computers and coding work. The micro-credential will introduce you to JavaScript and how to use this programming language to develop ideas and create visuals from scratch. The skills you will acquire are highly transferable and can be used as a stepping stone towards building web applications, programmable robots, generative art and much more.

By the end of the micro-credential, you will understand the fundamentals of programming and how you can ideate and design original creative works through the medium of software.

Notes:

Open to everyone, the course is an avenue to combine your creativity and interests with technical skills.

Assessment:

A final poster presentation, which equates to around 2,000 words.

Syllabus:

Introduction to Computer Science and creative coding; Computational Media with p5.js; Introduction to the basics of 2D Drawing with code; Making visual outputs engaging; Making the code vary with variables and conditionals; Interactivity (i.e. programming visual interactions that change over time and respond to user inputs); looping and repetition; Using functions and applying interactions with the keyboard and mouse; Developing skills to create generative text and typography; Coding in and manipulating different media