

# Program

## Class 1

introduction to pure data

types of signals and chains; audio data midi cv

digital vs analog inputs and outputs

make a random tone generator in pure data

## Class 2

introduction to bela

working with a breadboard

pull down resistor circuit

sensor types

flash an LED

## Class 3

Working with midi and cv in pure data

loopers and delays in pure data

velostat and other fabric sensors with bela

## Class 4

sound synthesis and sampling in pure data

binary code for maximizing minimalist controls

instrument design and ergonomics

## Class 5

generative music

controlled randomness in improvisation

designing user interfaces

other synthesis types in pure data

## Class 6

polyrhythms, pulse and frequency

random seeds and beats

working with live and pure data

midi clock and other sync

## Class 7

pitch and amplitude tracking

mobmuplat

webpd

soldering tips and other connectors

## Class 8

student expo and jam session