

PHYS210 outline

week 1.1: Imagine day @UBC

week 1.2: “Linux, command line and scripting”

week 2.1: “Numbers and strings in Python: operators”

week 2.2: “Introduction to NumPy, the numerical Python package”

week 3.1: “Reading and writing ascii files in Python”

week 3.2: “Functions and users defined functions, methods”

week 4.1: “Functions, Conditionals and recursion”

week 4.2: “Iterations in Python”

week 5.1: “Plotting: introduction to Matplotlib”

week 5.2: “Lists”

week 6.1: “Dictionaries”

week 6.2: “Tuples”

week 7.1: “A deeper look at NumPy”

week 7.2: “Introduction to the Scientific Python package SciPy”

week 8.1: “A deeper look at SciPy”

week 8.2 and after: These classes will mostly focus on doing small projects. A project consists in writing a code to solve a physics or math question. You will do programming using the knowledge learned in class so far. Some new concepts will be introduced in class on a case by case basis.