

Number crunching with Python

Leveraging the Numpy and Scipy math libraries

Syllabus

This course is designed for intermediate Python users and those who have registered for the basic course *Getting started with Python*. The course imparts a set of really useful skills for number crunching with Python, such as:

1. Process data in multi-dimensional arrays using Numpy
2. Explore the limitless capability of Matplotlib to Visualise 2D and 3D data
3. Delve into the advanced science capabilities of the Scipy module, with examples in:
 - Integration and interpolation
 - Signal processing
 - Linear algebra and optimisation
 - Statistics

If there is time we will attempt a selection of advanced STEM-based exercises to offer students an opportunity to hone their craft.

Experience level

For intermediate users with a STEM background.

Course delivery and logistics

All of our workshops are taught by example from instructors that really care about you and your staff, with close attention paid to maximising educational value. This workshop is designed to be taught over 6 hours plus breaks, and

usually this requires the investment of a full day. With regard to logistics we have a number of options available including:

- On premises, where we come and teach the course using your facilities (Perth metropolitan area or by travel arrangement).
- At our nominated training facilities (Perth metropolitan area only).
- Online via video conferencing (available worldwide).

To keep the educational quality high we have a strict person limit of up to 15 people per class. We can repeat a workshop for as many times as necessary to cover your training requirements. In addition to this workshop we can build our other course offerings to create a "boot camp" spanning several days.

Ready to take the conversation further?

So great to have you on board! When you are ready to have a further conversation we can help sort out the logistics and organise a quote.

[Contact us today!](#)