PHYB57 F2024 - Introduction to Scientific Computing

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Please send all e-mail correspondences from your university account and include your student number. In the email subject, include the prefix "PHYB57: "

We will use the textbook "Python Programming And Numerical Methods: A Guide For Engineers And Scientists". There is no need to purchase it as there is a freely-available online version that will be extensively used:

https://pythonnumericalmethods.studentorg.berkeley.edu/notebooks/Index.html

Monday 1-2pm - default time is 5 mins per student

There will be regularly scheduled office hours during which the instructor will be available to engage in individual or group consultations as determined by the needs of the students. Should additional office hours be required, students are encouraged to make such requests, specifying a few preferred time slots that would be convenient for them.

- Develop proficiency in Python for numerical modeling and data analysis.
- Understand computational models and their applications in physics.
- Gain skills in scientific visualization and the interpretation of data.

In-person lectures will be on Mondays 10-11am and Thursdays 11am - 12noon.

Note that the lectures will start 10 minutes past the hour. Please make sure you are on time.

Please refrain from eating lunch during the lectures.

Mondays, 3-4pm or 4-5pm (students will be assigned to one of two 1hr-long sessions)

Attendance is mandatory for all practicals. During the