Course Announcement

PHY 504 Computational Methods in Physics and Astrophysics

An introduction to procedural and object-oriented programming in a high-level language such as C++ or modern Fortran with examples and assignments consisting of rudimentary algorithms for problems in physics and astronomy. Students will use the UNIX/Linux operating system to write programs and manage data, and the course will include an introduction to parallel computing and good programming practices such as version control and verification. The course will prepare students for courses in algorithms and methods that assume a knowledge of programming.

Spring 2021, 3 credits, Letter graded (A, A-, B+, etc.)

Feel that computational methods would enhance your research but don't know where to begin?

Never see this mysterious "programming" as an undergrad?

Want to overcome a deep-seated mistrust of computers and/or numerical methods?

Curious about Linux/Un*x operating systems?

If you answer yes to one of more of these questions, then PHY 504 is the course for you. No prior experience with programming will be assumed. Yes, you, too, can stop worrying and learn to love computing!

Contact Alan Calder, alan.calder@stonybrook.edu, for more information.