Introduction to Computational Physics
Physics 476 C – Spring 2020
Class meets TR 9.35-10.50  Neckers 410

• Goal:
  ✓ Learn to Code through scientific problems.
  ✓ Develop the Skill of Computational Thinking and Computer Programming to be competitive in current job market.

• Choice of Programming Language: Python
  ✓ Python is versatile. Its industrial/financial applications are numerous. You will develop a much-needed skill through PHYS 476C.

• Beyond Physics - Numerical techniques will be discussed which can be applied to any scientific/engineering and industrial applications.

• Instructional Approach is Flip Class Model. Numerical techniques are explained in small modules of recorded lectures. Students will be actively engaged in writing programs during the class time. One-on-one attention is given as much as possible.

• Prerequisites: Two semesters of an introductory physics sequence or equivalent.
  ✓ No prior programming experience is expected.

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