

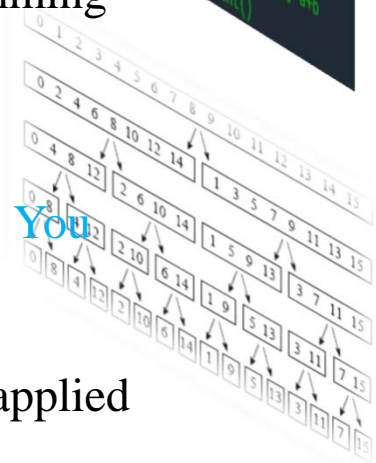
Introduction to Computational Physics

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.**

```
Python 3: Fibonacci series U
>>> def fib(n):
>>>     a, b = 0, 1
>>>     while a < n:
>>>         print(a, end=' ')
>>>         a, b = b, a+b
>>>     print()
```



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