

Fall 2023

## **BNFO 135: Programming for Bioinformatics**

Jun Wu

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## BNFO 135. Programming for Bioinformatics

Instructor: Dr. Jun Wu

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Office: GITC 2114

Office Hours: Friday 2:30 pm – 3:40 pm

### Course Description:

The ability to use existing programs and to write small programs to access bioinformatics information or to combine and manipulate various existing bioinformatics programs has become a valuable part of the skill set of anyone working with biomolecular or genetic data. This course provides an understanding of the architecture of bioinformatics toolkits and experience in writing small bioinformatics programs using one or more of the scripting ("glue") languages frequently employed for such tasks.

### Online Textbook: zyBooks

Instruction to subscribe:

1. Sign in or create an account at [learn.zybooks.com](http://learn.zybooks.com)
2. Enter code **NJITBNFO135WuFall2023**
3. Subscribe

### Reference Book:

Think Python by Allen B. Downey, 2nd edition. This is an open source book. It is available without charge in HTML and PDF formats at <http://greenteapress.com/wp/think-python-2e/>.

### Brief List of Topics to be Covered:

1. Introduction to Python
2. Variables and Expressions
3. Types
4. Branching
5. Loops
6. Function
7. Classes

### Grading:

Attendance	10%
Participation Activities	10%
Challenge Activities	20%
Lab Activities	25%
Final	35%
=====	
TOTAL	100%

### Academic Integrity Policy

All course work, including exams, assignments, labs, projects must be done by student themselves. Sharing materials with classmate, especially programming work including logic, and/or modifying the materials to fabricate and reproduce other versions is very seriously treated based on the NJIT University Policy on Academic Integrity.

