BNFO 135. Programming for Bioinformatics
Instructor: Dr. Jun Wu
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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

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:**

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|---|---|
| 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.