

Introduction to Python Programming

Instructor: Andrew Bydlon

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Class Meetings: 10am-11:50 MWF

Location: Jesup Hall 205

Grading Scheme: You are required to complete all of the work for this class. That work is as follows:

- **In class assignments:** Roughly half of classtime will be spent with students performing small programming exercises.
- **A final project:** At the end of the course, you will be asked to turn in one final project which pertains to your own field of study or interests.

Attendance: Attendance will be taken at the beginning of each class. It is a mandatory aspect of the course.

As a result, a student with 1 unexcused absence will receive a **perfunctory pass**, and with 2 will **fail the course**. In the event of an excused absence, the student will perform an additional independent programming project that will likely take more time than actually attending class.

Glow: I will be posting the presentations from class to glow at the end of each lecture. In addition, you can upload all of your individual project work to glow.

Topics:

- Introduction to Python
- Interactive vs Script Mode
- Data Types and Variables
- Numbers
- (Order of) Operators
- Strings
- String Methods
- If-else statements
- Loops
- Break and Continue
- Lists
- Functions
- Modules
- Objects and Classes
- Inheritance and Polymorphism
- Operator Overloading
- File Handling
- Exception Handling
- Tuples
- Sets
- Time-permitting: GUIs