10 Week Python Curriculum Outline - <u>Tentative</u>

1. **Week 1**
   a. **Async:** Units 1
      i. Introduction to Programming, the Command Line, and Source Control
   b. **Homework:** Unit 1
2. **Week 2**
   a. **Async:** Units 2, 3
      i. Starting Out with Python
      ii. Sequence Types and Dictionaries
   b. **Homework:** Unit 2, 3
3. **Week 3**
   a. **Async:** Units 4, 5
      i. More About Control and Algorithms
      ii. Functions
   b. **Homework:** Unit 4, 5
   c. **Other:** Assign Project 1
4. **Week 4**
   a. **Async:** Units 6, 7
      i. Modules and Packages
      ii. Classes
   b. **Homework:** Units 6, 7
5. **Week 5**
   a. **Async:** Units 8, 9
      i. Object-Oriented Programming
      ii. Working With Text and Binary Data (Optional)
   b. **Homework:** Units 8, 9
   c. **Other:** Midterm Exam (Take Home)
6. **Week 6**
   a. **Async:** Units 10, 11
      i. NumPy
      ii. Data Analysis With Pandas
   b. **Homework:** Units 10, 11
   c. **Other:** Project 1 Due. Form Final Project Groups
7. **Week 7:**
   a. **Async:** Unit 12, 13
      i. More Analysis With Pandas
      ii. Testing
   b. **Homework:** Units 12, 13
   c. **Other:** Final Project Proposals Due
8. **Week 8:**
   a. **Async:** Unit 14

      b. **Homework:** Units 14

9. **Week 9:**
      a. **Async:**
      b. **Homework:**
      c. **Other: "**Final" Exam (format details TBD)

10. **Week 10:**
      a. **Goals:** Present Final Projects, Course Wrap-Up
      b. **Async:**
      c. **Homework:** Course Survey
      d. **Other:** Final Project Report Due