CS 602 Summer 2021

Very Tentative Schedule!

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| Session | Date | Topics | In Class | Due |
| 0 | **Pre-session** | Install Anaconda, Eclipse, PyDev |  |  |
| 1 | **May 17** | Ch 1 – Hello Python!  Using Eclipse and PyDev | P1 assigned |  |
|  |  | Ch 2 - Elementary Programs  Data Types and Calculations |  |  |
| 2 | **May 24** | Ch 3 – Math Functions, Strings,  Formatting Output (f-strings)  (skip 3.7 – 3.8) | P2 assigned | P1 due |
|  |  | Ch 4 – Selection Statements and Conditions  Python Debugger (pythontutor.com)  Random Numbers |  |  |
| 3 | **May 31** | Ch 5 – Loops (while, for, range, nested, break, continue) - skip 5.9 |  |  |
|  |  | Ch 10 – Lists, List Comprehensions  Ch 14 – Tuples |  |  |
| 4 | **June 7** | Ch 6 – Functions, Arguments, Optional Arguments, Scope | P3 assigned | P2 due |
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| 5 | **June 14** | Ch 10 – Reading from Files | **Quiz 1** |  |
|  |  | Ch 11 – Multidimensional Lists |  |  |
| 6 | **June 21** | Ch 14 - Tuples, Sets, and Dictionaries  Nested Dictionaries | P4 assigned | P3 due |
|  |  | Ch 13 – Files and exceptions  Reading CSV Files (DictReader)  DS Ch 4 – MatPlotLib (basics) |  |  |
| 7 | **June 28** | DS Ch4 – MatPlotLib (more charts) |  |  |
|  |  | DS Ch 2 – NumPy / Arrays  Statistics Module |  |  |
| 8 | **July 5** | DS Ch 2 Pandas Data Frame (sort, filter rows and columns) | P5 assigned | P4 due |
|  |  | Streamlit for UI |  |  |
| 9 | **July 12** | DS Ch2 – Pandas (pivot tables, group by, advanced features)  Twitter Data | **Quiz 2** | P5 part 1 due |
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| 10 | **July 19** | Python / Pandas Advanced Applications | Project Presentations | P5 part2 due |
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| 11 | **July 26** |  |  |  |
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| 12 | **Aug 1** |  |  |  |