WQU Resource Links

Schedule

Lectures will be distributed every week as a set of 4 hour long videos. The links will be posted here as they are uploaded.

Video links below

| **Date** | **Event** | **Youtube Link** |
| --- | --- | --- |
| Monday 7/8/2019 6:00 am | WQU DS Module Introductory Video | <https://youtu.be/QUQSY7pmuSQ> |
| Monday 7/8/2019 6:00 am | 1.1.1 Basic Programming & Variables | <https://youtu.be/3phV29yvWO8> |
| Monday 7/8/2019 6:00 am | 1.1.2 Functions | <https://youtu.be/SytwpgZ5k6U> |
| Monday 7/8/2019 6:00 am | 1.1.3 Logic & Conditional Expressions | <https://youtu.be/CyjsNEFjLVk> |
| Monday 7/8/2019 6:00 am | 1.1.4 Iteration | <https://youtu.be/MIjqvWgfdq8> |
| Monday 7/8/2019 6:00 am | 1.2.1 Data Structures (list) | <https://youtu.be/GGhWL_r_CSE> |
| Monday 7/8/2019 6:00 am | 1.2.2 Data Structures (tuple) | <https://youtu.be/jDuGDuzGkyE> |
| Monday 7/8/2019 6:00 am | 1.2.3 Data Structures (set) | <https://youtu.be/b4odPCnUcwA> |
| Monday 7/8/2019 6:00 am | 1.2.4 Data Structures (dict) | <https://youtu.be/Acv69ca9Bu8> |
| Monday 7/8/2019 6:00 am | 1.2.5 Data Structures (collections module) | <https://youtu.be/cS2xi4Ut0lY> |
| Monday 7/8/2019 6:00 pm | Office Hour 1 | <https://www.youtube.com/watch?v=pEcBhR-YQF0> |
| Tuesday 7/9/2019 10:00 pm | Office Hour 2 | <https://www.youtube.com/watch?v=qV5L_sIe-EU> |
| Wednesday 7/10/2019 6:00 pm | Office Hour 3 | <https://www.youtube.com/watch?v=X9yJ1p7412Q> |
| Thursday 7/11/2019 10:00 pm | Office Hour 4 | <https://www.youtube.com/watch?v=Sf9lW8Pc1lA> |
| Monday 7/15/2019 6:00 am | 2.1.1 Algorithms and Complexity Analysis | <https://youtu.be/PL15zDN5cCA> |
| Monday 7/15/2019 6:00 am | 2.1.2 Computational/Time Complexity | <https://youtu.be/X9O5vGqMl1s> |
| Monday 7/15/2019 6:00 am | 2.1.3 Recursion & Memoization | <https://youtu.be/8yaoYqokmPk> |
| Monday 7/15/2019 6:00 am | 2.1.4 Memory Complexity & Data Structures | <https://youtu.be/RuPUm5nbNQY> |
| Monday 7/15/2019 6:00 am | 2.2.1 What is an Object? | <https://youtu.be/21Ia8yZtQqU> |
| Monday 7/15/2019 6:00 am | 2.2.2 Introduction to Classes | <https://youtu.be/wxNT_vPQihE> |
| Monday 7/15/2019 6:00 am | 2.2.3 Defining Useful Classes | <https://youtu.be/Zi4DqsSXHUE> |
| Monday 7/15/2019 6:00 am | 2.2.4 Object-Oriented Programming & Inheritance | <https://youtu.be/UxR8ZPTMkuc> |
| Monday 7/15/2019 6:00 am | 2.3.1 VC Miniproject Intro & Hackerrank Coding Challenges | <https://youtu.be/k80mHM-VqBQ> |
| Monday 7/15/2019 6:00 pm | Office Hour 5 | <https://www.youtube.com/watch?v=xwKQdo5rg1o> |
| Tuesday 7/16/2019 10:00 pm | Office Hour 6 | <https://www.youtube.com/watch?v=rorgobIEsSY> |
| Wednesday 7/17/2019 6:00 pm | Office Hour 7 | <https://www.youtube.com/watch?v=CCe1EUc7yck> |
| Thursday 7/18/2019 10:00 pm | Office Hour 8 | <https://www.youtube.com/watch?v=9pzfOEoX1vE> |
| Sunday 7/21/2019 6:00 am | 3.1.1 Pythonic Programming | <https://youtu.be/20WhvoAQVIc> |
| Sunday 7/21/2019 6:00 am | 3.1.2 Python Modules & Imports | <https://youtu.be/9xdmBjurb7c> |
| Sunday 7/21/2019 6:00 am | 3.1.3 Exceptions & Debugging | <https://youtu.be/dvU2UY6QM5I> |
| Sunday 7/21/2019 6:00 am | 3.2.1 Basic Python IO | <https://youtu.be/TCJktfMOaPw> |
| Sunday 7/21/2019 6:00 am | 3.2.2 File System Operations in Python | <https://youtu.be/_9BHLex7FC8> |
| Sunday 7/21/2019 6:00 am | 3.2.3 CSV Files | <https://youtu.be/kZiE5nZPH5E> |
| Sunday 7/21/2019 6:00 am | 3.2.4 JSON Files | <https://youtu.be/fI0nOob4fuA> |
| Sunday 7/21/2019 6:00 am | 3.2.5 Compression & GZip Files | <https://youtu.be/Z3MQ8_zpczI> |
| Sunday 7/21/2019 6:00 am | 3.2.6 Serialization & Pickle Files | <https://youtu.be/uPwk_TbHGdY> |
| Sunday 7/21/2019 6:00 am | 3.3.1 PW Miniproject Intro | <https://youtu.be/sCB8g4D-0DA> |
| Monday 7/22/2019 6:00 pm | Office Hour 9 | <https://www.youtube.com/watch?v=I1i-z1IVDf8> |
| Tuesday 7/23/2019 10:00 pm | Office Hour 10 | <https://www.youtube.com/watch?v=f9LSr4AzSvY> |
| Wednesday 7/24/2019 6:00 pm | Office Hour 11 | <https://www.youtube.com/watch?v=INffneZ0nig> |
| Thursday 7/25/2019 10:00 pm | Office Hour 12 | <https://www.youtube.com/watch?v=gaPI0y7tIgc> |
| Sunday 7/28/2019 6:00 am | 4.1.1 Intro to NumPy | <https://youtu.be/eI-7PDaWfPk> |
| Sunday 7/28/2019 6:00 am | 4.1.2 Creating NumPy Arrays | <https://youtu.be/3gXD67pTVP4> |
| Sunday 7/28/2019 6:00 am | 4.1.3 Advantages of NumPy | <https://youtu.be/NOzCJa16gHw> |
| Sunday 7/28/2019 6:00 am | 4.1.4 Computation with NumPy | <https://youtu.be/QF9TQ9Yj6tc> |
| Sunday 7/28/2019 6:00 am | 4.1.5 Mutating NumPy Arrays | <https://youtu.be/UPd2zcr5Tbc> |
| Sunday 7/28/2019 6:00 am | 4.1.6 Plotting with Matplotlib | <https://youtu.be/mRxAAcGRR2U> |
| Sunday 7/28/2019 6:00 am | 4.1.7 Intro to Pandas | <https://youtu.be/zu4uCw79iRU> |
| Monday 7/29/2019 6:00 pm | Office Hour 13 | <https://www.youtube.com/watch?v=yuZ58EYwfWc> |
| Tuesday 7/30/2019 10:00 pm | Office Hour 14 | <https://www.youtube.com/watch?v=-1AitK6n2ts> |
| Wednesday 7/31/2019 6:00 pm | Office Hour 15 | <https://www.youtube.com/watch?v=Thi2X0AOaks> |
| Thursday 8/1/2019 10:00 pm | Office Hour 16 | <https://www.youtube.com/watch?v=cs5vMAjSaCI> |
| Monday 8/5/2019 6:00 am | 5.1.1 Pandas Overview | <https://youtu.be/LLltyyJH9kk> |
| Monday 8/5/2019 6:00 am | 5.1.2 Pandas IO | <https://youtu.be/KmmwUVrYMOQ> |
| Monday 8/5/2019 6:00 am | 5.1.3 Filtering DataFrames | <https://youtu.be/EkCWEMe6cSg> |
| Monday 8/5/2019 6:00 am | 5.1.4 Data Transformations | <https://youtu.be/3HdYzqh8Bag> |
| Monday 8/5/2019 6:00 am | 5.1.5 Data Aggregation | <https://youtu.be/_93sDSezpD8> |
| Monday 8/5/2019 6:00 am | 5.1.6 Joins & Multiple DataFrames | <https://youtu.be/0QEgP-m8MFE> |
| Monday 8/5/2019 6:00 am | 5.1.7 Time Series Data | <https://youtu.be/WzIHzSet8WY> |
| Monday 8/5/2019 6:00 am | 5.2.1 Intro to Statistics | <https://youtu.be/y54T0l8LilY> |
| Monday 8/5/2019 6:00 am | 5.2.2 Estimating Means | <https://youtu.be/qsDQHeqJuhw> |
| Monday 8/5/2019 6:00 am | 5.2.3 Standard Error of the Mean | <https://youtu.be/T_EC239eoM4> |
| Monday 8/5/2019 6:00 am | 5.2.4 Hypothesis Testing & Z-Scores | <https://youtu.be/FDOZK1DYh2w> |
| Monday 8/5/2019 6:00 am | 5.2.5 Parameter Estimation & Confidence Intervals | <https://youtu.be/W6fFG3x5-zE> |
| Monday 8/5/2019 6:00 am | 5.3.1 DW Miniproject Intro | <https://youtu.be/xgna885PXg0> |
| Monday 8/5/2019 6:00 am | Extra Statistics Videos | <https://www.youtube.com/playlist?list=PLVNgHN883b8FuKC-Fpnh72thE4m7J1nNO> |
| Monday 8/5/2019 6:00 pm | Office Hour 17 | [canceled](https://wqu-ds.tditrain.com/hub/canceled) |
| Tuesday 8/6/2019 10:00 pm | Office Hour 18 | <https://youtu.be/AyciFXagRbs> |
| Wednesday 8/7/2019 6:00 pm | Office Hour 19 | <https://www.youtube.com/watch?v=cju9Pk-3kAc> |
| Thursday 8/8/2019 10:00 pm | Office Hour 20 | <https://www.youtube.com/watch?v=cSVde7bxMKg> |
| Monday 8/12/2019 6:00 am | 6.1.1 Data Munging & Web Scraping | <https://youtu.be/wV4BU2caSOs> |
| Monday 8/12/2019 6:00 am | 6.1.2 Cleaning & Structing Data | <https://youtu.be/dtAEkwMUWZk> |
| Monday 8/12/2019 6:00 am | 6.1.3 Dealing with Multiple Data Sources | <https://youtu.be/ci9AvvnON4g> |
| Monday 8/12/2019 6:00 am | 6.1.4 Data Munging in Pandas | <https://youtu.be/1Y8e8UhsvME> |
| Monday 8/12/2019 6:00 pm | Office Hour 21 | <https://www.youtube.com/watch?v=KnOtFOARQ3w> |
| Tuesday 8/13/2019 10:00 pm | Office Hour 22 | <https://www.youtube.com/watch?v=O9n6DY_fDXM> |
| Wednesday 8/14/2019 6:00 pm | Office Hour 23 | <https://www.youtube.com/watch?v=bEv3mNfL_Ig> |
| Thursday 8/15/2019 10:00 pm | Office Hour 24 | <https://www.youtube.com/watch?v=IyjI7LfXyLE> |
| Monday 8/19/2019 6:00 am | 7.1.1 SQL & Relational Databases | <https://youtu.be/1VkpuNpEqKA> |
| Monday 8/19/2019 6:00 am | 7.1.2 Basic SQL Syntax | <https://youtu.be/5i9OvFAPbAs> |
| Monday 8/19/2019 6:00 am | 7.1.3 Filtering & Sorting Data in SQL | <https://youtu.be/LEmp_AaIxGM> |
| Monday 8/19/2019 6:00 am | 7.1.4 Joins & Aggregations in SQL | <https://youtu.be/HLTotdjNvl4> |
| Monday 8/19/2019 6:00 am | 7.1.5 Comparison of SQL Flavors | <https://youtu.be/PeGsrKiJRY8> |
| Monday 8/19/2019 6:00 pm | Office Hour 25 | <https://youtu.be/GtbbTSAk3-k> |
| Tuesday 8/20/2019 10:00 pm | Office Hour 26 | <https://www.youtube.com/watch?v=obQjp9zaK4M> |
| Wednesday 8/21/2019 6:00 pm | Office Hour 27 | <https://www.youtube.com/watch?v=ZP-l-sSS-Uk> |
| Thursday 8/22/2019 10:00 pm | Office Hour 28 | <https://www.youtube.com/watch?v=aILirNMlE38> |
| Monday 8/26/2019 6:00 am | 8.1.1 Introduction to Object Relation Mapping | <https://youtu.be/ZkOCn4FWd0Q> |
| Monday 8/26/2019 6:00 am | 8.1.2 Using Classes for Applications | <https://youtu.be/unLMZzFsx1Q> |
| Monday 8/26/2019 6:00 am | 8.1.3 Translating Classes into SQL with ORM | <https://youtu.be/ZT0gt0F88Ks> |
| Monday 8/26/2019 6:00 am | 8.1.4 Pushing Objects to SQL & Making Queries | <https://youtu.be/88UKnoER9lw> |
| Monday 8/26/2019 6:00 am | 8.2.1 Course Conclusion | <https://youtu.be/pAT_9CkcsU4> |
| Monday 8/26/2019 6:00 pm | Office Hour 29 | <https://www.youtube.com/watch?v=yptGfk0Lej8> |
| Tuesday 8/27/2019 10:00 pm | Office Hour 30 | <https://www.youtube.com/watch?v=GXNbrwYiEHg> |
| Wednesday 8/28/2019 6:00 pm | Office Hour 31 | <https://www.youtube.com/watch?v=gU1rypGu_n4> |
| Thursday 8/29/2019 10:00 pm | Office Hour 32 | <https://www.youtube.com/watch?v=Ex2I9HnPZU8> |