

Additional Topics Below are some addition topics that will need to be covered in order to prepare students for the [MTA Certification]. ## File Handling and Catching Exceptions * [Think Python - File Handling] - Sections: 14.1, 14.2, 14.4, 14.5 * [W3schools - File Handling] - Sections: File Handling, Read Files, Write and Create Files, Delete Files * **University of Oxford - File Handling** [Oxford Slide Deck L4] - (Slides 15-19) [! [University of Oxford - Math Module Video](https://img.youtube.com/vi/N__JNieQL5c/0.jpg)] (https://youtu.be/N__JNieQL5c?t=1155) ## Error Handling * [Runestone Academy - Exceptions] * [Think Python - Debugging] - Sections: Syntax errors, Run time Errors, Semantic Errors * [Python - Handling Exceptions] - Topics: Try, except, else, finally, raise * **Microsoft Learn - Error Handling Video** [! [University of Oxford - Math Module Video](https://img.youtube.com/vi/HQqqNBZosn8/0.jpg)] (https://youtu.be/HQqqNBZosn8) * **Free Code Camp - Try and Except Video** [! [Free Code Camp - Try and Except](https://img.youtube.com/vi/rfscVS0vtbw/0.jpg)](https://youtu.be/rfscVS0vtbw?t=11057) ## Built-In Modules * [Runestone Academy - Math Module] * **University of Oxford - Math Module** [Oxford Slide Deck L2] - [Math Example Code] [! [University of Oxford - Math Module Video] (https://img.youtube.com/vi/fW6MaWqAHFw/0.jpg)](https://youtu.be/fW6MaWqAHFw?t=463) * [Runestone Academy - Random Module] * **University of Oxford - Random Module** [Oxford Slide Deck] - [Random Example Code] [! [University of Oxford - Math Module Video] (https://img.youtube.com/vi/fW6MaWqAHFw/0.jpg)](https://youtu.be/fW6MaWqAHFw?t=732) * [W3 Schools - Datetime Module] * **Microsoft Learn - Datetime Module** [! [Microsoft Learn - Datetime Module Video] (https://img.youtube.com/vi/o1dlxoHxdHU/0.jpg)](https://youtu.be/o1dlxoHxdHU) ## DocStrings * [Python Docstring Conventions](https://www.python.org/dev/peps/pep-0257/#what-is-a-docstring) * Python 3 Tutorial [! [DocStrings Video 1](https://img.youtube.com/vi/W9aNB8P01e0/0.jpg)](https://youtu.be/W9aNB8P01e0) ## Multi-Line Docstrings * Python 3 Tutorial [! [DocStrings Video 1] (https://img.youtube.com/vi/fKbdcz3XtCY/0.jpg)](https://youtu.be/fKbdcz3XtCY) ## Pydoc Module * [Python Information](https://docs.python.org/2/library/pydoc.html) * PyDoc - A Celebration of Documentation [! [PyDoc - A Celebration of Documentation](https://img.youtube.com/vi/URBSvqib0xw/0.jpg)] (https://youtu.be/URBSvqib0xw) [W3schools - File Handling]: https://www.w3schools.com/python/python_file_handling.asp [Think Python - File Handling]: <http://greenteapress.com/thinkpython/html/thinkpython015.html> [W3 Schools - Datetime Module]: https://www.w3schools.com/python/python_datetime.asp [Think Python - Debugging]: <http://greenteapress.com/thinkpython/html/thinkpython021.html> [Python - Handling Exceptions]: <https://wiki.python.org/moin/HandlingExceptions> [Runestone Academy - Math Module]: <https://runestone.academy/runestone/books/published/thinkcspy/PythonModules/Themathmodule.html> [Runestone Academy - Random Module]: <https://runestone.academy/runestone/books/published/thinkcspy/PythonModules/Therandommodule.html> [Runestone Academy - Exceptions]: <https://runestone.academy/runestone/books/published/thinkcspy/Exceptions/toctree.html> [MTA Certification]: <https://www.microsoft.com/en-us/learning/exam-98-381.aspx> [Oxford Slide Deck L2]: /cert_assets/lesson_2.odp [Math Example Code]: /cert_assets/math_example.py [Random Example Code]: /cert_assets/random_example.py [Oxford Slide Deck L4]: /cert_assets/lesson_4.odp