

CSC349A Numerical Analysis

Lecture 2

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2025

Table of Contents I

1 Python

2 MATLAB(optional)

- Python - <https://www.spyder-ide.org/>
 - Comes with Anaconda
- NumPy - Use this package most
 - `numpy.array` allows for the same vectorization as Matlab
- Pyplot - Use this for graph plotting
 - `matplotlib.pyplot.plot`
- SciPy - Has some more advanced and efficeint scientific computation algorithms
 - `scipy.interpolate`

Table of Contents I

1 Python

2 MATLAB(optional)

- <https://matlab.engr.uvic.ca/student/>
- pgs. 28-40 - Elementary programming concepts and pseudocode
- pgs. 948-955 - Appendix B: Getting Started with MATLAB
- pgs. 44-48 - MATLAB and the free-falling example
- UVic MATLAB reference manual in Brightspace - Lecture 2 Sub-module.
- MATLAB = *MAT*rix *LAB*oratory
- The matrix is the fundamental data structure.
- MATLAB is *interpreted* NOT compiled.