

## Resources for Students

**Note: This list includes resources that we have heard previous AI Professional Program students have found useful, however inclusion does not imply any specific endorsement from Stanford Online**

### Mathematics

- [Math51 Linear Algebra, Multivariable Calculus, and Modern Applications](#)
- [Coursera: Mathematics for Machine Learning series \(Imperial College London\)](#)
- [Stanford CS229 Linear Algebra Review and Reference](#)
- [Coursera: Math for ML and Data Science](#)
- [MIT Single Variable Calculus](#)
- [MIT Multivariable Calculus](#)
- [MIT Linear Algebra](#)
- [MIT Mathematics for Machine Learning](#)
- [The Matrix Calculus You Need For Deep Learning](#)
- [CS221 Materials](#)

### Statistics and Probability

- [Stanford CS229 - Review of Probability Theory](#)
- [Stanford CS229 - Statistics and Probability Refresher](#)
- [MIT Probabilistic Systems Analysis and Applied Probability](#) (2010 version [here](#))
- [CS109 Course Reader: Probability for Computer Scientists](#)

### Python

- [Introduction to Computer Science and Programming Using Python](#)
- [Coursera: Python 3 Programming Specialization](#)
- [Coursera: Applied Data Science with Python Specialization](#)
- [Stanford CS231n Python/Numpy Tutorial](#)