Math Basics (3 lectures)

	Topics	Lecture notes	Tasks
08/19	Vectors, matrices, and derivatives	**Lecture 1 (https://canvas.uidaho.edu/courses/30734/files/3268203?wrap=1)**	**Read** 1) R. Baraniuk, D. Donoho, and M. Gavish, "Th science of deep learning," Proceedings of the Nation Academy of Sciences, vol. 117, no. 48, pp. 30029-30 2020. **https://doi.org/10.1073/pnas.2020596117** ▱ **(https://doi.org/10.1073/pnas.2020596117)** . **2)** *Appendix A: Matrix Calculus, The Science of DL*
08/21	Probabilities	**Lecture 2 (https://canvas.uidaho.edu/courses/30734/files/3268204?wrap=1)**	**Read** 1) Chapter 3, *Deep Learning* 2) *2D Gaussian distribution:* ***Gaussian function - W*** ▱ *(https://en.wikipedia.org/wiki/Gaussian_function)*
08/26	Functions	**Lecture 3 (https://canvas.uidaho.edu/courses/30734/files/3268196?wrap=1)**	**HW 1: Functions (https://canvas.uidaho.edu/courses/30734/assignment**