1106-VX-1951 **Mohamed Allali*** (allali@chapman.edu). *Application of Fourier Transform to Image Noise Removal.*

As digital images are shared, cropped, scanned, printed then scanned, digital images can lose vital image information or acquire noise in the form of blurring, salt and pepper, noise patterns, and/or scanner lines. In this talk, I will show how Fourier Transform can be used to fix imperfections on an image and can help reconstruct the image to its original form. This can be incorporated as a solid project into many mathematics courses. (Received September 15, 2014)