

Course Detail Information

Course Number:	1051-716
Course Name:	FOURIER METHODS FOR IMAGING
Course Title:	FOURIER METHODS IMAGING
Course Description:	<p>This course develops the mathematical methods required to describe continuous linear systems, with special emphasis on tasks required in the analysis or synthesis of imaging systems. The classification of systems as linear/nonlinear and shift variant/invariant is discussed first, followed by development and use of the convolution integral, and by a discussion of Fourier methods as applied to the analysis of linear systems, including the Fourier series and Fourier transform. Emphasis is placed on the physical meaning and interpretation of these transform methods. Within the context of image analysis, imaging systems as a linear filter, image enhancement and information extraction, and several basic image processing techniques are also introduced. Also offered online. (Graduate standing in a science or engineering program or permission of instructor) Class 4, Credit 4 (F)</p>
Credit Hours:	4
Course Notes:	
Section Types Offered:	Lecture
Future Term Offerings:	<i>No future term offerings currently available.</i>