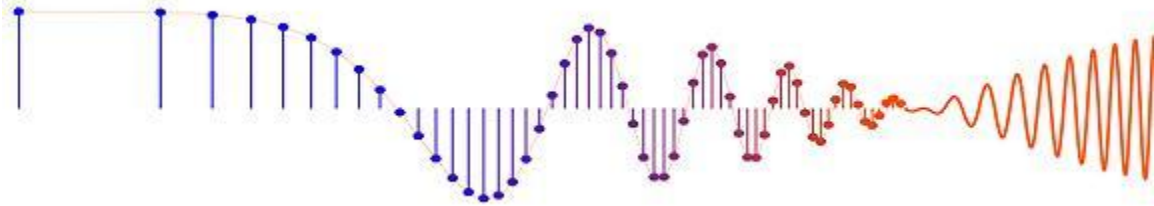


Course Announcement:  
**Signals and Systems**  
(alias Digital Signal Processing or DSP)  
Spring 2010



Catalog Description:

**PHY 354 Signals and Systems**

Prerequisite: PHY 252 and PHY 392. An introduction to continuous time and discrete time signals is presented. Basic system properties such as causality, linearity, time invariance, time and frequency domain representations, and digital filter design and analysis will be studied. General analysis techniques will include matrix algebra, complex variables, Fourier transforms, and Laplace transforms. 3(3-0) S

Important Note: Due to the use of MATLAB software, we can **waive the prerequisites** if you have had Calculus II and any Computer Programming course.

Digital Signal Processing is an important part of all modern electronic signal reproduction and analysis such as MP3, MPEG, Image Processing, Medical Devices (CAT and MRI scans), Cell Phones, Face and Voice Recognition, Scientific Data Analysis, etc. The class will also introduce the MATLAB computer language.

If you are seriously interested in taking this course, please contact Dr. Steve Younger to get on the sign-up sheet. The Department may offer it if enough students sign up.

This course counts as a 3 hour elective for Physics Majors and Physics **Minors**.

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