

*Portland State University*      *Electrical and Computer Engineering*  
**ECE 419/519: Linear System Design II**  
**(4 Credits)      Winter 2014**

- Class schedule: T & Th: 4:40 - 6:20 PM
- Instructor: Prof. Fu Li
- Office hours: T & Th: 3:30 - 4:30 PM or by appt.
- FAB 160-10, 5-3824 or fli@ece.pdx.edu

Textbook:

- Signals and Systems, 2nd edition, by Poularikas and Seely, PWS-Kent, 1991.

References:

- Contemporary Linear Systems, Using Matlab, by Robert D. Strum and Donald E. Kirk, PWS-Kent Publishing, 2007.
- Signals and Systems: Continuous and Discrete, Third Edition, by Rodger E. Ziemer, William H. Tranter, and D. Ronald Fannin, MacMillan, 2009.

Course descriptions

- Introduction of fundamental concepts of discrete-time linear system, including linearity, superposition, time-invariance, causality, stability, and convolution; Z transform and other discrete-time transforms; State-Space description of linear systems and its properties; advanced topics.

Prerequisite:

- ECE 418: Signals and Systems, or equivalent.

Grading policy:

- Final grade will be based upon: two mid-term quiz 25% and final exam 50%.
- The weekly-assigned homework will not be graded, but are required to be turned in. The solutions to homework problems will be available.
- The attendance is required.

**Have fun!**