

**College of Engineering
Proposed Catalog Changes
Effective Summer 2018**

ELECTRICAL AND COMPUTER ENGINEERING

1. Remove the following courses from dormancy:

ECE 521 Power System Stability (3 cr)

Understanding, modeling, and analysis of power system transient and voltage stability; techniques for improving power system stability; use of computer tools. Cooperative: open to WSU degree-seeking students. (Alt/yrs)

Prereq: ECE 520 or Permission

ECE 556 Adaptive Signal Processing (3 cr)

Theory and applications of adaptive signal processing; adaptive linear combiner; performance surfaces; adaptive optimization of performance by gradient search; learning curve behavior, adaptation rates, and misadjustment; applications to filtering, prediction, estimation, control, and neural networks.

Prereq: ECE 350, Math 330, and ECE 450 or ECE 452 or ECE 476 or ECE 477, or Permission

ECE 571 Estimation Theory for Signal Processing, Communications, and Control (3 cr)

Identification of dynamic system models from test data; methods to be considered include least-squares, prediction error, maximum likelihood, instrumental variables, correlation, and extended Kalman filter; practical applications and computer-based exercises emphasized within a mathematically rigorous framework. Cooperative: open to WSU degree-seeking students.

Prereq: ECE 570 or Permission