The Power Systems Screening exam comprises 6 classes: 3 in Power, 2 in Core Systems, and 1 in a specific Systems Domain. The details are as follows.

**Core Power Courses:**

- EE 443 Introduction to Power Systems
  - Components of power systems. Analysis techniques in electrical power generation transmission and utilization. Environmental and economic considerations in system operations and planning.
- EE 521 Power Systems Analysis and Design
  - Power system planning, studies, and design; time-domain modeling and analysis of power-system networks; power flow, stability, fault, and economic dispatch analysis; symmetrical components. (Pre-req: EE443)
- EE 524 Transients in Power Systems
  - Overvoltages during faults, voltage recovery, arcing faults, restrikes, theory of switching surges. Systems grounding, traveling waves, lightning and surge protection, insulation coordination. (Pre-req: EE443)

**Core Systems Courses:**

- EE 441 Applied Linear Algebra for Engineering
- EE 503 Probability for Electrical and Computer Engineers

**Systems Domain Course:**

The student would select one class offered in the screening exam that semester by either Communications, Controls, Computer Engineering, or Signal Processing (this excludes EE441, EE503). Whichever class the student chooses will also determine the group that she/he is examined by for EE441 and EE503 exams. For example, if the student chooses EE482 as the domain course, then she/he would take EE441 and EE503 in the Controls group. If she/he choose EE483, she/he would take three exams with the Signal Processing group (EE441, EE503, EE483).