

ENGINEERING: ELECTRICAL (EEL)

EEL 5769 - Computer Architecture (3 Credits)

This course focuses on advanced topics, including memory hierarchy such as caching and virtual memory, pipelining, multiprocessor systems, instruction, data, and thread level parallelism and other contemporary issues in computer architecture.

EEL 6218 - Energy Conversion Applications (3 Credits)

Principles of energy conversion with applications to renewable energy systems. Energy efficiency and conservation; measurement; electro-magnetic concepts including motors, transformers, AC/DC, DC/AC, DC/DC and MPPT, lighting, thermal IR, storage, safety, and energy economics.

EEL 6285 - Sustainable Energy Sources (3 Credits)

Alternative Energy techniques, solar power, wind power, biomass, and other sources, electric power grid and integration of renewable energy storage and smart energy utilization and public policy.