

Electrical Engineering

Time	Monday	Tuesday	Wednesday	Thursday	Friday
7:00 AM					
7:30 AM					
8:00 AM					
8:30 AM					
9:00 AM					
9:30 AM					
10:00 AM					
10:30 AM		ECE 4438			
11:00 AM		SEB 3109			
11:30 AM					
12:00 PM			ECE 3349		
12:30 PM			UCC 54A		ECE 3349
1:00 PM					UCC 54A
1:30 PM					
2:00 PM					
2:30 PM					
3:00 PM		ECE 4439			
3:30 PM	ECE 2241	SEB 2200		ECE 4438	
4:00 PM	SEB 3107			SEB 3109	
4:30 PM					
5:00 PM					
5:30 PM					

ECE 3349 - Introduction to VLSI

This course covers fundamentals of semiconductor physics as applied to microelectronics, theory of semiconductor materials and devices. Students will be exposed to basic elements of CMOS circuitry design, including practical implementation of resistors, capacitors, diodes, transistors and MOSFET. Related topics such as delays, cross-talk, parasitics, temperature effects are included.

ECE 4438 - Advanced Image Processing

This course explores a few major areas of digital image processing at an advanced level, with primary emphasis on medical applications. Topics covered include image filtering and enhancement, visualization, image segmentation and image registration. Examples will be presented to give the students exposure to real-world applications in medicine and other applications.

ECE 4439 - Conventional, Renewable, and Nuclear Energy

Global energy resources, distribution and consumption. Sustainability. Principles of operation and control of thermal, nuclear, thermal and hydroelectric, photovoltaic solar and wind power plants. Distributed Generation (DG) and renewable energy technologies. Grid integration of distributed generation.

ECE 2241 - Electrical Laboratory II

Laboratory experiments associated with ECE 2231A/B, ECE 2233A/B and ECE 2236A/B; basic semiconductor circuit elements (diodes,