ELECTRICAL ENGINEERING (ELEC)

ELEC 8226 INTRODUCTION TO PHYSICS AND CHEMISTRY OF SOLIDS (3 credits)
Introduction to structural, thermal, electrical, and magnetic properties of solids, based on concepts of atomic structure, chemical bonding in molecules, and electron states in solid state devices. (Cross-listed with ELEC 4220)
Prerequisite(s)/Corequisite(s): PHYS 2130 or CHEM 3350, MATH 2350 or permission. Not open to non-degree graduate students.

ELEC 9680 ELECTRON THEORY OF SOLIDS (3 credits)
Quantitative development of the fundamentals of the quantum mechanical theory of electrons in solids.
Prerequisite(s)/Corequisite(s): ELEC 9670 or permission. Not open to non-degree graduate students.

ELEC 9730 INTRODUCTION TO NANOTECHNOLOGY (3 credits)
The content of this course will be updated annually based on new scientific findings. Topics in nanotechnology as defined by the National Nanotechnology Initiative, with emphasis on topics related to electrical engineering.
Prerequisite(s)/Corequisite(s): Permission. Not open to non-degree graduate students.