Courses in Electrical and Computer Engineering

I Ece 141
Programming for Engineers (4)
This course offered fully online. (Formerly I CEN 200.) This is an introductory course in C programming language, which covers structured programming, data types, arrays, multi-dimensional arrays, functions, recursions, pointers, strings, structures and unions, bit manipulation, file processing, preprocessor, command line arguments and handling multiple source and header files. Only one of I ECE 141, I CEN 200, and I CEN/I CSI/201 may be taken for credit. Must be completed with a grade of C or better to register for I CEN 340 or I CEN 231. Prerequisite(s): A grade of C or better in both I CEN 111/150 or I ECE 111/150 and A MAT 112 or 118.

Students registering for this course must first register for the required lab (2289).
(2288) Muckell, Jonathan
6 Week 1: May 24 - July 2

Lab for I Ece 141
(2289) Muckell, Jonathan
6 Week 1: May 24 - July 2

I Ece 202
Introduction to Circuits (4)
This course offered fully online. (Formerly I CEN 280.) Review of basic circuits, voltage and current division, and Thevenin and Norton equivalent circuits. Analysis of circuits using the matrix formulation of Kirchhoff's Current and Voltage Laws. Operational Amplifiers. Study of circuits with capacitors and inductors using linear differential equations. Sinusoidal steady state response of basic circuits, phasor circuit analysis, and frequency dependence. Passive filter design and analysis. Laplace Transform and s-domain circuit analysis. This course includes a laboratory. Only one of I CEN 280 and I ECE 202 may be taken for credit. Prerequisite(s): A PHY 150 or 152 or T PHY 151. Prerequisite(s) or corequisite(s): A MAT 311 and either A MAT 220 or 222.

Students registering for this course must first register for the required lab (2649).
(2290) Braunstein, Jeffrey
May 24 - July 16
Scheduled synchronous class meetings via Zoom:
MW 9:00 a.m.-10:50 a.m.

Lab for I Ece 202
(2649) Braunstein, Jeffrey
May 24 - July 16
TTh 9:30 a.m.-11:15 a.m.

I Ece 210 (=I Csi 210)
Discrete Structures (4)
This course offered fully online. (Formerly I CEN/I CSI 210) Mathematical reasoning, propositions, predicates and quantifiers; Boolean algebra, logic minimization; sets, functions, sequences, matrix algebra; mathematical induction and recursion; number theory, modular arithmetic, counting, permutations and combinations. Only one of I CEN/I CSI/I ECE 210 may be taken for credit. Prerequisite(s): A MAT 112
Students registering for this course must first register for the required Discussion section (2233).
(2232) Hurd, Andrew
6 Week 1: May 24 - July 2
Discussion section for I Ece 210
(2233) Hurd, Andrew
6 Week 1: May 24 - July 2

I Ece 213 (=I Csi 213)
Data Structures (4)
*This course offered fully online.* (Formerly I CEN/I CSI 213/ICSI 310.) This course covers commonly used abstract data structures such as lists, stacks, queues, trees and graphs. The implementation and time-space analysis of these data structures is discussed in the context of recursion, sorting and searching algorithms. May not be taken by students with credit for I CSI 310. Only one of I CEN/I CSI/I ECE 213 may be taken for credit. Must be completed with a grade of C or better to take I CEN/I CSI 333 or I ECE 233. Prerequisite(s): Grade of C or better in I CEN/I CSI 201, or I CEN 200 or I ECE 141.

**Students registering for this course must first register for the required lab (2100).**

(2099) Bhattacharya, Amiya
6 Week 4: June 28 – August 8

Lab for I Ece 213
(2100) Bhattacharya, Amiya
6 Week 4: June 28 – August 8

Scheduled synchronous class meetings via Zoom:
TTh 3:00p.m.-4:20p.m.