Courses in Electrical and Computer Engineering

I Cen 200
Programming for Engineers (4)
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 CEN/I ECE 200 and I CEN/I CSI/I ECE 201 may be taken for credit. Must be completed with a grade of C or better to register for I ECE 340. 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.
(2334) Muckell, Jonathan
6 Week 2: June 24-August 2
MTWThF 2:00p.m.-3:45p.m.
AS-13

I Cen 210 (=I Csi 210)
Discrete Structures (4)
Proofs by induction; mathematical reasoning, propositions, predicates and quantifiers; sets; relations, graphs, and trees; functions; counting, permutations and combinations. Only one of I CEN/I CSI/I ECE 210 may be taken for credit. Prerequisite(s): high school mathematics through precalculus. Prerequisite(s) or corequisite(s): A MAT 112.
(2029) Muckell, Jonathan
4 Week 1: May 28-June 21
MTWThF 12:30p.m.-3:30p.m.
PH-224

I Cen 213 (=I Csi 213)
Data Structures (3)
Commonly used abstract data structures and their implementation. The use of pointers and recursive programming. Stacks, queues, lists and trees, and their application to such problems as sorting and searching. Analysis of algorithms for using these structures. 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/I ECE 333. Prerequisite(s): I CSI/I CEN/I ECE 201 or permission of department chair.
Students registering for this course must first register for the required lab (2031).
(2030) Cusano, Carol
4 Week 2: June 24-July 19
MTWTh 6:00p.m.-8:40p.m.
Ph-224

Lab for I Cen 213
(2031) Cusano, Carol
4 Week 2: June 24-July 19
T 1:00p.m.-3:20p.m.
PH-224

I Cen 280
Introduction to Circuits (3)
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/I ECE 280 may be taken for credit. Prerequisite(s): A PHY 150 or 152 or T PHY 151.
Corequisite(s): A MAT 311 and either A MAT 220 or 222.

**Students registering for this course must first register for the required lab (2336).**

(2335) Agamy, Mohammed
6 Week 1: May 28-July 5
MW 6:00p.m.-9:30p.m.
ES-19

Lab for I Cen 280
(2336) Agamy, Mohammed
6 Week 1: May 28-July 5
TTh 6:00p.m.-9:00p.m.
ES-19

I Cen 350
Signals and Systems (3)
This course introduces students to Signals and Systems. The course is divided into three parts: introduction,
theory, and applications of continuous-time signals and systems, and theory and applications of discrete--
time signals and systems. The course is organized so that students not only get a solid understanding of the
theory -- enhanced by analytic examples and software examples using MATLAB, learn about applications,
but also develop confidence and proficiency in the material by working on analytic and computational
problems. Only one of I CEN/I ECE 350 may be taken for credit. Prerequisites(s): A MAT 220, A MAT 311, I CEN/ECE 280.
(2337) Elgala, Hany
6 Week 1: May 28-July 5
MTWThF 11:00a.m.-12:20p.m.
ES-19

I Cen 416 (=I Csi 416)
Computer Communication Networks (3)
Introduction to computer communication networks. Equal emphasis on all layers of the ISO reference
model and the TCP/IP protocol suite. Topics include physical networks, sliding window protocols, remote
procedure call, routing, naming and addressing, security, authentication, performance, and applications.
Only one of I CEN/I CSI/I ECE 416 may be taken for credit. Prerequisite(s): I CEN/I CSI/I ECE 400 or I CSI 402, and A MAT 367 or A MAT 370.
(2338) Elgala, Hany
6 Week 1: May 28-July 5
MTWThF 2:00p.m.-3:20p.m.
ES-19