Courses in Computer Science

I Csi 201
Introduction to Computer Science (4)
This course offered fully online. (Formerly I CEN/I CSI 201.) This course first introduces with the elementary concepts of computer science such as CPU, memory, I/O devices and binary number system. It then focuses on developing basic programming skills. The topics include input and output data, data types, control structures, functions/methods, arrays, procedural and object-oriented programming concepts, and program debugging and compilation. Only one of I CEN 200 or I ECE 141 and I CEN/I CSI/I ECE 201 may be taken for credit. Prerequisites: no prerequisite; general mathematical knowledge and computer skills are recommended.

Students registering for this course must first register for the required Lab (2280).
(2279) Wang, Qi
4 Week 1: May 24 - June 18

Lab for I Csi 201
(2280) Wang, Qi
4 Week 1: May 24 - June 18

I Csi 210 (=I Ece 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 (2231).
(2230) Hurd, Andrew
6 Week 1: May 24 - July 2

Discussion section for I Csi 210
(2231) Hurd, Andrew
6 Week 1: May 24 - July 2

I Csi 213 (=I Ece 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 (2284).
(2283) Bhattacharya, Amiya
6 Week 4: June 28 – August 8

Lab for I Csi 213
(2284) Bhattacharya, Amiya
6 Week 4: June 28 – August 8

Scheduled synchronous class meetings via Zoom:
TTh 3:00p.m.-4:20p.m.
I Csi 300Z
Societal and Ethical Implications of Computing (3)

This course offered fully online. Current age challenges for governments, communities and individuals related to development and implementation of computer technologies. General and professional ethics. Analysis of various moral aspects of computing (privacy, security, hacking, etc.) for making responsible decision. Intellectual property concepts such as copyrights, patents and trademarks. Elements of effective professional and technical communication and documentation. Prerequisite(s): any introductory course in computer science or related field; programming experience is a plus.

(2224) Kuperman, Vladimir
4 Week 1: May 24 - June 18