FALL 2019

ELECTIVES FOR CS MAJORS: ENTRY YEARS 2018-2019

LOGICS AND LANGUAGES

15312	Foundations of Programming Languages
15316	Software Foundations of Security and Privacy
15317	Constructive Logic
15424	Logical Foundations of Cyber-Physical Systems

SYSTEMS

15410	Operating System Design and Implementation
15411	Compiler Design
15418	Parallel Computer Architecture and Programming
15440	Distributed Systems
15441	Computer Networks
15445	Database Systems

ARTIFICIAL INTELLIGENCE

10315	Introduction to Machine Learning
11411	Natural Language Processing
11485	Introduction to Deep Learning **(NEW)**
15281	Artificial Intelligence: Representation and Problem Solving **(NEW COURSE NUMBER)**
16384	Robot Kinematics and Dynamics
16385	Computer Vision

DOMAINS

05391	Designing Human-Centered Software
15322	Introduction to Computer Music
15330	Introduction to Computer Security
15455	Undergraduate Complexity Theory
15462	Computer Graphics
17313	Foundations of Software Engineering

PROBABILITY

21325	Probability
36218	Probability Theory for Computer Scientists
36225	Introduction to Probability Theory*
36226	Introduction to Statistical Inference
	students selecting 36225 must also take 36226 afterwards to satisfy this category

TECHNICAL COMMUNICATION

15300	Research and Innovation in Computer Science
76270	Writing for the Professions