Computer Science Course List

Core Courses: Computer Science

639	Intro to Scientific Computing
672	Intro Computer Graphics
730	Introduction to Bioinformatics
731	Introduction to Data Science
738	Machine Learning
741	Computer Vision
743	Advanced Computer Architecture
750	Advanced Operating Systems
762	Programming Language Foundation I
765	Introduction to Cryptography and Computer
780	Security Communication Networks

Elective Courses: Computer Science

638	Fundamentals of Expert Systems
649	Intro Artificial Intelligence
660	Fundamentals of Computer Algorithms
711	Security Management and Audit
718	Graph Algorithms
739	Parallel Scientific Computing
740	Digital Image Processing
741	Computer Vision
742	Static Analysis
745	Implementation of Networks
746	Database Systems
753	Embedded and Real Time Computer Systems
755	Software Modeling and Analysis
764	Analysis of Algorithms
767	Information Retrieval
768	Virtual Machines
773	Advanced Graphics
774	Geometric Modeling
775	Visualization
776	Functional Programming and Domain Specific Languages
781	Numerical Analysis I
782	Numerical Analysis II
784	Science of Communication Networks

830	Advanced Artificial Intelligence
831	Introduction to Systems Biology
837	Data Mining
838	Applications of Machine Learning in Bioinformatics
839	Mining Special Data
843	Programming Language Foundation II
863	Network Analysis, Simulation, and Measurements
866	Network Security
868	Mathematical Optimization with Applications
881	High-Performance Networking
882	Mobile Wireless Networking
940	Theoretic Foundation of Data Science
983	Resilient and Survivable Networking