

Computer Engineering Course List

Core Computer Engineering Courses: Computer Engineering

- 644 Intro to Digital Signal Processing
- 660 Fundamentals of Computer algorithms
- 665 Compiler Construction
- 739 Scientific Parallel Computing
- 743 Advanced Computer Architecture
- 750 Advanced Operating Systems
- 762 Programming Language Foundation 1
- 780 Communication Networks
- 786 Digital VLSI

Elective Courses: Computer Engineering

- 611 Electromagnetic Compatibility
- 628 Fiber Optic Communication Systems
- 638 Fundamentals of Expert Systems
- 649 Intro Artificial Intelligence
- 664 Intro Digital Communication Systems
- 670 Semiconductor Processing
- 672 Intro Computer Graphics
- 718 Graph Algorithms
- 730 Introduction to Bioinformatics
- 731 Introduction to Data Science
- 738 Machine Learning
- 739 Scientific Parallel Computing
- 740 Digital Image Processing
- 741 Computer Vision
- 742 Static Analysis
- 744 Communications and Radar Digital Signal Processing
- 745 Implementation of Networks
- 746 Database Systems
- 753 Embedded and Real Time Computer Systems
- 759 Estimation and Control of Unmanned Autonomous Systems
- 764 Analysis of Algorithms
- 765 Introduction to Cryptography and Computer Security
- 767 Information Retrieval

768 Virtual Machines
769 Information Theory
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
788 Analog Integrated Circuit Design
810 Software Engineering & Mngt

776	Functional Programming and Domain Specific Languages
781	Numerical Analysis I
782	Numerical Analysis II
784	Science of Communication Networks
788	Analog Integrated Circuit Design
828	Advanced Fiber-Optic Communications
830	Advanced Artificial Intelligence
837	Data Mining
839	Mining Special Data
843	Programming Language Foundation II
844	Adaptive Signal Processing
861	Random Signals and Noise
862	Principles of Digital Communication Systems
863	Network Analysis, Simulation, and Measurements
865	Wireless Communication Systems
866	Network Security
868	Mathematical Optimization with Applications
881	High-Performance Networking
882	Mobile Wireless Networking
888	Internet Routing Architectures
965	Detection and Estimation Theory
983	Resilient and Survivable Networking