AI and Machine Learning

* CS 541 Artificial Intelligence (MA 222 and MA 232 prerequisites)
* CS 544 Health Informatics
* CS 557 Introduction to Natural Language Processing
* CS 559 Machine Learning: Fundamentals and Applications (MA 222 and MA 232 prerequisites)
* CS 582 Causal Inference
* CS 583 Deep Learning (MA 232 prerequisite)
* CS 584 Natural Language Processing (MA 232 Prerequisite)

Application Development

* CS 522 Mobile Systems and Applications (CS 385 Prereq)
* CS 546 Web Programming (CS 385 Prereq)
* CS 545 Human-Computer Interaction (CS 385 Prereq)
* CS 566 Smartphone and Mobile Security (CS 385 Prereq)
* CS 146 Introduction to Web Programming and Project Development
* CS 370 Creative Problem Solving and Team Programming (CS 385 Prereq)
* CS 574 Object-Oriented Analysis and Design (CS 385 Prereq)
* CS 537 Interactive Computer Graphics (CS 385 Prereq)
* CS 526 Enterprise and Cloud Computing (CS 385 Prereq)
* CS 548 Enterprise Software Architecture and Design (CS 385 Prereq)
* CS 597 User Experience Design and Programming
* CS 609 Data Management and Exploration on the Web

Systems

* CS 492 Operating Systems (CS 382 and CS 392 prereq)
* CS 511 Concurrent Programming (CS 392 prereq)
* CS 516 Compiler Design and Implementation (CS 334 and CS 385 prereq)
* CS 549 Distributed Systems and Cloud Computing (CS 385 prereq)
* CS 696 Database Security
* CS 596 Introduction to Windows Programming (CS 392 prereq)
* CS 677 Parallel Programming for Many Core Processors (CS 392 prereq)

Theory

* CS 442 Database Management Systems (CS 385 prereq)
* CS 503 Discrete Mathematics for Cryptography (CS 135 prereq)
* CS 579 Foundations of Cryptography (CS 385 prereq)
* CS 643 Formal Verification of Software (CS 392 prereq)
* CS 601 Algorithmic Complexity (CS 334 and CS 385 prereq)

Security

* CS 503 Discrete Mathematics for Cryptography (CS 135 prereq)
* CS 696 Database Security