

MSCEI DEGREE REQUIREMENTS FORM

First Name: _____ Last Name: _____ N number#: _____

The MSCEI degree requires 33 credits to graduate.

Computer Science/Courant Part of the Program

Courant Core Courses: Students must complete the four following courses:

CSCI-GA 2630 Found of Networks & Mobile Semester _____ Grade ____ Credits ____

CSCI-GA 2810 Design and Innovation Semester _____ Grade ____ Credits ____

CSCI-GA 2820 DevOps and Agile Method Semester _____ Grade ____ Credits ____

CSCI-GA 2830 Lean Launch Pad Semester _____ Grade ____ Credits ____

CS Requirement A: Mathematical Techniques and Statistics Elective

Course: _____ Semester _____ Grade ____ Credits ____

CS Requirement B: Systems Engineering Elective

Course: _____ Semester _____ Grade ____ Credits ____

CS Requirement C: Applications Elective

Course: _____ Semester _____ Grade ____ Credits ____

Course: _____ Semester _____ Grade ____ Credits ____

Leonard N. Stern School of Business (Stern) Part of the Program: Students must complete the following four courses (6 credits total)

Stern Requirement A:

COR1-GB 1102 Leadership Semester _____ Grade ____ Credits ____

Stern Requirement B:

COR1-GB 2101 Strategy Semester _____ Grade ____ Credits ____

Stern Requirement C:

MGMT-GB 2129 Entrepreneurship Semester _____ Grade ____ Credits ____

Stern Requirement D:

COR1-GB 2105 Communication Semester _____ Grade ____ Credits ____

Capstone Requirement: Students must complete CSCI-GA 2840 Entrepreneurship Capstone

CSCI-GA 2840 Entrepreneurship Capstone Semester _____ Grade ____ Credits ____

Computer Science Electives

Mathematical Techniques and Statistics

CSCI-GA 1180 Mathematical Techniques for CS Applications
CSCI-GA 2112 Scientific Computing
CSCI-GA 2271 Computer Vision
CSCI-GA 2565 Machine Learning
CSCI-GA 2566 Foundations of Machine Learning
CSCI-GA 2572 Deep Learning
CSCI-GA 3033 Advanced Machine Learning
CSCI-GA 3033 Bayesian Machine Learning
CSCI-GA 3033 Big Data and ML Systems

CSCI-GA 3033 Data Science for Healthcare
CSCI-GA 3033 Deep Generative Models
CSCI-GA 3033 Introduction to Computer Vision
CSCI-GA 3033 Mathematics of Deep Learning
CSCI-GA 3033 Statistical NLP
CSCI-GA 3033 Vision Meets Machine Learning
CSCI-GA 3210 Introduction to Cryptography
CSCI-GA 3520 Honors Analysis of Algorithms
*permission required

Systems Engineering

CSCI-GA.2110 Programming Languages *permission required
CSCI-GA 2130 Compiler Construction
CSCI-GA 2434 Advanced Database Systems
CSCI-GA 2436 Realtime and Big Data Analytics
CSCI-GA 2437 Big Data Application Development
CSCI-GA 2620 Networks and Mobile Systems
CSCI-GA 2621 Distributed Systems
CSCI-GA 2630 Foundations of Networks and Mobile Systems
CSCI-GA 3033 Abstract Interpretation
CSCI-GA 3033 Big Data and ML Systems
CSCI-GA 3033 Cryptocurrencies and Decentralized Ledgers
CSCI-GA 3033 Multicore Processors: Architecture & Programming
CSCI-GA 3110 Honors Programming Languages *permission required

Applications

CSCI-GA 2270 Computer Graphics
CSCI-GA 2271 Computer Vision
CSCI-GA 2274 Advanced Computer Graphics
CSCI-GA 2433 Database Systems
CSCI-GA 2436 Realtime and Big Data Analytics
CSCI-GA 2437 Big Data Application Development
CSCI-GA 2560 Artificial Intelligence
CSCI-GA 2565 Machine Learning
CSCI-GA 2566 Foundations of Machine Learning
CSCI-GA 2590 Natural Language Processing
CSCI-GA 2965 Heuristic Problem Solving
CSCI-GA 3033 Bayesian Machine Learning
CSCI-GA 3033 Big Data Science
CSCI-GA 3033 Big Data and ML Systems
CSCI-GA 3033 Blockchain and Its Applications
CSCI-GA 3033 Cloud and Machine Learning
CSCI-GA 3033 Cryptocurrencies and Decentralized Ledgers

CSCI-GA 3033 Data Science for Health
CSCI-GA 3033 Data Science for Healthcare
CSCI-GA 3033 Geometric Modeling
CSCI-GA 3033 GPUs: Architecture and Programming
CSCI-GA 3033 High Performance Machine Learning
CSCI-GA 3033 Introduction to Computer Vision
CSCI-GA 3033 Intro to Deep Learning Systems
CSCI-GA 3033 Machine Learning for Healthcare
CSCI-GA 3033 Multicore Processors: Architecture & Programming
CSCI-GA 3033 Multicore Programming
CSCI-GA 3033 Predictive Analytics
CSCI-GA 3033 Search Engine Architecture
CSCI-GA 3033 Social Networks
CSCI-GA 3033 Statistical NLP
CSCI-GA 3033 Vision Meets Machine Learning
CSCI-GA 3205 Applied Cryptography & Network Security