MSCEI DEGREE REQUIREMENTS FORM

First Name: ___________ Last Name: _____________ N number#: ________________

The MSCEI degree requires 33 credits to graduate. The breakdown is as follows:

**Computer Science/Courant Part of the Program:** Students must take nine (27 credits total) courses in the Computer Science department; Within these 27 credits, students must complete four core courses (12 credits total), one (3 credits total) Mathematical Techniques and Statistics Elective, one (3 credits total) Systems Engineering Elective, and two (6 credits total) Applications Electives.

**Courant Core Courses:** Students must complete the four following courses:
- CSCI-GA 2630 Founds of Networks and Mobile Systems Semester _______ Grade ___ Credits 3
- CSCI-GA 2810 Design and Innovation Semester _______ Grade ___ Credits 3
- CSCI-GA 2820 DevOps and Agile Methodologies Semester _______ Grade ___ Credits 3
- CSCI-GA 2830 Lean LaunchPad Semester _______ Grade ___ Credits 3

**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 in Organizations Semester _______ Grade ___ Credits 1.5

**Stern Requirement B:**
COR1-GB 2101 Strategy Semester _______ Grade ___ Credits 1.5

**Stern Requirement C:**
MGMT-GB 3135 Entrepreneurship Semester _______ Grade ___ Credits 1.5

**Stern Requirement D:**
COR1-GB 2105 Communication Semester _______ Grade ___ Credits 1.5

**Capstone Requirement:** Students must complete CSCI-GA 2840 Entrepreneurship Capstone
Course: Entrepreneurship Capstone _______ Semester _______ Grade ___ Credits 3
Computer Science Electives

Mathematical Techniques and Statistics
- Mathematical Techniques for CS Applications
- Foundations of Machine Learning
- Honors Analysis of Algorithms* (permission required)
- Statistical NLP
- Vision Meets Machine Learning

Systems Engineering
- Advanced Database Systems
- Cryptocurrencies and Decentralized Ledgers
- Distributed Systems
- Honors Programming Languages* (permission required)

Applications
- Advanced Computer Graphics
- Computer Graphics
- Computer Vision
- Cryptocurrencies and Decentralized Ledgers
- GPUs: Architecture and Programming
- Multicore Programming
- Predictive Analytics
- Statistical NLP
- Vision Meets Machine Learning