Construction Engineering and Management Programs

- **Doctor of Philosophy**
  - Civil Engineering (Const)

- **Master of Science**
  - Civil Engineering (Const)
  - Construction Management
  - Urban Systems Engineering and Management

- **Bachelor of Science**
  - Civil Engineering (Const)
  - Construction Management

3/6/2013
MSCE (Construction)

Core Courses (Req’t: 4 of 6)

CE 6023      Materials Engineering
CE 6073      Instrumentation, Monitoring, and Condition Assessment of Civil Infrastructure
CE 7673      Environmental Impact Assessment
CE 7843      Introduction to Urban Systems Eng
CE 8253      Project Management for Construction
CE 8283      Risk Analysis

All course are 3 credit hours
### Additional Courses

- CE 7983 Selected Topics in Construction I
- CE 7993 Selected Topics in Construction II
- CE 8203 Project Management
- CE 8253 Project Management for Construction
- CE 8263 Construction Cost Estimating
- CE 8273 Contracts and Specifications
- CE 8283 Risk Analysis

- CE 8313 Engineering for Construction I: Methods and Technologies
- CE 8323 Engineering for Construction II: Design
- CE 8333 Marketing for Construction Management and Engineering Services
- CE 8343 Construction Site Safety
- MG 6013 Organizational Behavior
Special Skill Sets of Core

• CE 8243 Construction Modeling Techniques
• CE 8293 Construction Operations Analysis Using BIM
• CE 8303 Information Systems in Project Management (BIM Capstone Course)
Adis Sehic

The Application of BIM to the resolution of project site disputes

Sponsor: STV Group
Current PhD Student

Hyunchul Choi

The MAGLEV Vehicle Selection Method: Based on Stochastic Life Cycle Cost Approach

Sponsor: Maglev2000
Avinash Prasad

Applications of Superconducting Maglev to Railroads and Subways

Sponsor: NYC TA
The MARS concept

- **MARS 3D drawing flat panel option**
  - In the subway station, the common rail-wheel system will be operated
  - During running between the station, the maglev vehicle system will be operated
The MARS concept

- **Type 1: Flat Panel**
  - Vehicle Quadrupole
  - Quadrupole Panel #1
  - Quadrupole Panel #2
  - Vehicle Structure
  - Structure: 4' 8½"

- **Type 2: Minimonorail**
  - Vehicle Quadrupole
  - Vehicle Structure
  - Steel Rail
  - Mini Monorail
  - Structure: 4' 8½"
  - 16"

3/6/2013
Current PhD Student

Mei Liu

How to Incorporate IPD and BIM into Public Works Construction

Sponsor: NYC DDC
Frank DarConte

How to Incorporate IPD and BIM into Public Works Construction Contracts and other Project Delivery Issues

Sponsor: NYS AGC & NYC DDC
Hemanth Nerella

Determine the relationship between safety outcomes and Leadership

Sponsor: CII
Guilia Gallo

Determine the relationship between safety outcomes and Leadership

Sponsor: CII
End