

# Graduate Certificates



Northeastern University  
College of Engineering

Information Session  
Engineering Graduate Students  
Fall 2017

[coe.neu.edu](http://coe.neu.edu)



# Engineering Graduate Certificates

## Data and Communications Technology

- IP Telephony Systems
- Broadband Wireless Systems
- Computer Systems Engineering
- Data Mining Engineering
- Data Analytics Engineering

## Energy

- Energy Systems
- Energy Systems Management
- Renewable Energy
- Sustainable Energy Systems

## Engineering Management, Business, Leadership

- Galante Engineering Business\*
- Gordon Engineering Leadership\*\*
- Engineering Economic Decision Making
- Engineering Management
- Technology Systems Management

## Supply Chain and Process Management

- Lean Six Sigma
- Supply Chain Engineering
- Process Safety Engineering

# Why complete a GSE certificate?

- Focus your academic experience with *synergistic courses*
- Build specific knowledge and skills *aligned with industry* needs
- Complete coursework *as part of* your engineering degree—stacked credentialing
- Receive *official recognition* on university transcript
- Advance your career by *marketing certificate focus*

# Planning for Graduate Certificates

- Graduate certificate may be combined with any GSE program—Stacked credentialing
- Certificate coursework may be applied towards a GSE degree—  
Double count up to 2 or 4 courses depending on degree program  
<http://catalog.northeastern.edu/graduate/engineering/graduate-certificate-programs/>
- GSE certificate requires four courses (16 SH)
- Grad cert must be completed while working on your GSE degree program;  
Very careful planning is needed if you are in your 3<sup>rd</sup> semester
- Online, hybrid and evening classes available
- Seek input from program advisor or certificate director about certificate aligned with career goals

# Degree and Certificate

## Completion of Certificate

- Certificate **MUST** be completed during or before completion of your grad degree
- No Visa extensions for certificate program

## OPT

- OPT is based on degree program (this is a better option)

# Applying Certificate Coursework towards a GSE Degree

## Course Eligibility

- GSE degree must allow the certificate program

## Double Counting

- Departmental Programs  
allows **up to 2** eligible certificate courses (Except ChE, IE, ME general concentration, OR, allows up to 4)
- Multidisciplinary Programs (EM, ES, TSM, IS & CSYE)  
allows **up to 4** eligible certificate courses

**Triple counting of courses is not allowed**

## Example—How Certs Work with GSE Degrees

### MSEM Degree Program

32 Semester Hours Total

#### Required

Engineering Project Management  
Economic Decision Making  
Engineering Probability and Statistics  
Deterministic Operations Research

#### Electives

Lean Concepts and Applications  
Statistical Methods in Engineering  
Statistical Quality Control  
Engineering Organizational Psychology

GSE Degree (32 SH) + GSE Certificate (16 SH)

**Total Semester Hours\* = 32**

\* Number of double-counting courses vary by degree program and program alignment

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Engineering Organizational Psychology

### Lean Six Sigma Certificate

16 Semester Hours Total

Lean Concepts and Applications  
Engineering Probability and Statistics  
Statistical Methods in Engineering  
Statistical Quality Control

GSE Degree (32 SH) + GSE Certificate (16 SH)

**Total Semester Hours\* = 32**

\* Number of double-counting courses vary by degree program and program alignment



# Example—How Certs Work with GSE Degrees

## MSEM Degree Program

32 Semester Hours Total

### Required

Engineering Project Management

Economic Decision Making

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Deterministic Operations Research

### Electives

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Statistical Methods in Engineering

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16 Semester Hours Total

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Engineering Probability and Statistics

Statistical Methods in Engineering

Statistical Quality Control

GSE Degree (32 SH) + GSE Certificate (16 SH)

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# What's Next?

## Admissions

- GSE Degree Seeking need to be in good academic standing
- Apply from certificate pages  
<http://www.coe.neu.edu/degrees/certificates>
- No application fee for current students
- Need to apply before your last semester in the degree program

## FAQs

<https://husky.desk.com/customer/en/portal/topics/940249-graduate-certificates/articles>