

# GRADUATE CERTIFICATES IN ENTERPRISE OPTIMIZATION DATA SCIENCE



## GRADUATE CERTIFICATE IN ENTERPRISE OPTIMIZATION

The certificate program prepares students to tap the power of modern enterprise-level data to optimize quality, reduce risk, and create economic value for an organization. Our initial concentration area will be project management.

### TARGET AUDIENCE:

- Certified project management professionals or their equivalent
- Early-career managers who want skills in modern data analytics
- Professionals tasked by upper management with leveraging data to create enterprise value
- Those who want a defined pathway into the MS in Data Science

### REQUIRED COURSES:

- Data Mining**  
MDS 546 Quantitative Methods  
MDS 534 Data Mining and Business Intelligence
- Business Application**  
Two courses from the following options:  
MDS 560 Business Intelligence for Enterprise Value  
MDS 561 Data Analysis for Project Management Maturity  
MDS 562 Data Analysis for Business Transformation Projects
- Capstone**  
MDS 549 Data Mining Project

Students who complete the five courses for credit will receive the Graduate Certificate in Enterprise Optimization, or they may complete an additional five courses to earn an M.S. in Data Science which is offered entirely online.

### CONTACT PERSON(S):

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### WEBSITE:

<http://www.elmhurst.edu/academics/graduate>  
See also:  
<https://tinyurl.com/ElmhurstMDS>

## GRADUATE CERTIFICATE IN DATA SCIENCE

The certificate uses five existing courses from the master's in data science program. Students who complete the certificate program may elect to complete five additional courses to earn the master's degree.

### TARGET AUDIENCE:

Applicants from all industries and backgrounds, who hold any undergraduate degree, and who wish to begin practice in data science.

### REQUIRED COURSES\*:

- MDS 523 Data Warehousing  
MDS 546 Quantitative Methods  
MDS 534 Data Mining and Business Intelligence  
MDS 549 Data Mining Project  
One graduate level elective

\* The program director reserves the right to allow students to substitute required data science courses based upon the required admission interview.

## GENERAL INFORMATION

### ADMISSION REQUIREMENTS

Go to <https://www.elmhurst.edu/admission/graduate-students/how-to-apply> and follow the instructions for non-degree students: Application, resume, official undergraduate degree showing Bachelor's degree, official graduate transcript if graduate courses have been taken at another institution. Graduate Certificate in Data Science also requires completion of a basic course in statistics (with a grade of "C" or better) and prior coursework in programming plus at least one year of professional experience (may be waived with director's approval). If you wish to complete the additional five courses to earn the M.S. in Data Science, you must apply following all of the admission requirements for the master's degree program.

### COST:

\$870 Semester hour

### REGISTRATION PROCEDURE:

Online. Support is available through the Office of Admission and the Elmhurst College Help Desk.

### ACADEMIC CALENDAR:

Semester calendar in 8-week sessions

### DELIVERY MODE:

Fully online through 8-week sessions. Weekly synchronous sessions are available but not required.

### LOCATION(S) OF COURSES:

Online

### TEXTBOOK PURCHASE:

The EC Bookstore currently has the capability of shipping textbooks to the student's home.

### TRANSFER HOURS POLICY:

Transfer credit is determined by and at the sole discretion of the program director.

### FINANCIAL AID INFO:

<http://www.elmhurst.edu/admission/financial-aid>

### APPLICATION PROCESS:

To apply for admission, contact the Office of Admission at (630) 617-3400 or [admit@elmhurst.edu](mailto:admit@elmhurst.edu).