GAME DESIGN PROGRAMS

GAME DESIGN
Games is an emerging and rapidly-expanding discipline that combines technology, art, design, engineering, science, and business into an exciting new inter- and multidisciplinary field of study. The Game Design program at Northeastern is led by faculty from the College of Arts, Media and Design and the College of Computer and Information Science, who are top researchers, innovators, and educators in the field. They actively and intensively collaborate within their industries and represent the leading minds in game design from across the globe.

Certificate in Game Analytics

Students entering this degree are required to have an undergraduate or graduate course (or equivalent) in introductory statistics.

PROGRAM OVERVIEW

Northeastern’s one-of-a-kind certificate program helps students build knowledge for a career as an analyst in the game industry.

The one-year, 20-credit hour curriculum for the Graduate Certificate in Game Analytics is as follows:

Data Science Courses
- DS 6020 Storing and Retrieving Data 04
- DS 6030 Introduction to Machine Learning 04
- PPUA 6302 Information Design and Visual Analytics 04

Game Science and Design Courses
- GSND 5110 Game Design and Analysis 04
- GSND 6350 Game Analytics 04

ADDITIONAL INFORMATION
northeastern.edu/camd/gamecertificate

Game Design faculty and students conduct research across the fields of health science, psychology, computer science, affective science, and network science.

In a recent collaboration, an interdisciplinary team developed an interactive visualization system to investigate group and individual differences in game play strategies and decision-making over time.
**Program Overview**

The Master of Science (MS) in Game Science and Design gives students a comprehensive understanding of how successful game products are created in a player-centric environment. Focusing on the science of game development, students learn the design and technological skills needed to build a game while developing a deep understanding of playability and analytics.

Jointly offered by Northeastern’s College of Arts, Media and Design and the College of Computer and Information Science, the program gives students a choice of three concentrations: Game Analytics, Game User Research, and Game Design and Development.

The MS in Game Science and Design is a two-year, 34-credit hour degree consisting of the following requirements:

### Core Courses

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<tr>
<td>GSND 5110 Game Design and Analysis</td>
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<td>GSND 7990 Master Thesis</td>
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<tr>
<td>GSND 5111 Game Critique Seminar</td>
<td>01</td>
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<tr>
<td>GSND 5122 Business Models in the Game Industry</td>
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### Choice of:

- GSND 5130 Usability & Empirical User Research | 04
- PPUA 6301 Introduction to Computational Statistics | 04

### Concentrations

**12 credits hours**

3 courses* from one concentration:

#### Game Analytics

- GSND 6350 Game Analytics | 04
- DS 6020 Storing and Retrieving Data | 04
- DS 6030 Introduction to Machine Learning | 04
- PPUA 6302 Information Design and Visual Analytics | 04

#### Game User Research

- GSND 6330 Game User Research | 04
- GSND 6340 Advanced Game User Research | 04
- GSND 6320 Psychology of Play | 04
- CS 5340 Computer Human Interaction | 04

#### Game Design and Development

- CS 5850 Building Game Engines | 04
- CS 5150 Game AI | 04
- GSND 6240 Exploratory Concept Design | 04
- GSND 6250 Spatial and Temporal Design | 04

### Electives

2 courses from any concentration above.

*Students may enroll in one related course on campus with Director approval.

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**Additional Information**

northeastern.edu/camd/gamescience

**Application Deadlines**

- FEB 01: Priority deadline for scholarship consideration
- MAY 01: All international applicants
- AUG 01: All domestic applicants

Students entering this degree are required to have an undergraduate or graduate course (or equivalent) in introductory statistics.
Scholarships + Financial Support

Northeastern University and the College of Arts, Media and Design offer students a range of financial resources, including competitively awarded scholarships, assistantships, tuition reduction for Northeastern alumni, and graduate credit transfer.

FIND ADDITIONAL INFORMATION AND FINANCIAL RESOURCES AT northeastern.edu/camd/graduate

Apply

ADMISSIONS REQUIREMENTS AND DEADLINES
northeastern.edu/camd/graduate/admissions

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College of Arts, Media and Design

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Boston, Massachusetts 02115

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