



Bachelor's Degree Program *Multimedia Design & Development*

Specialization: **Web Game Programming**

ABOUT THIS DEGREE PROGRAM

The way we consume information and entertainment is constantly changing. Mobile and Internet media interact with traditional media like television and print to provide richer and more customized user experiences. Streaming video, apps, games and social networks deliver content in unique ways based on how, when and where we interact with them. A bachelor's degree in Multimedia Design and Development from DeVry University can help you understand both the technical and the creative aspects of content creation and delivery in the digital age.

Our Multimedia Design and Development degree program allows you to select a specialization that will focus your education on your specific career goals.

Specializations offered within the Multimedia Design and Development degree program:

- Graphic and Multimedia Design
- Graphics and Multimedia Management
- Web Design and Development
- Web Game Programming

GENERAL EDUCATION COURSEWORK

At DeVry University, we believe in the value of a comprehensive education. This means broadening your knowledge and skill sets beyond the area of your degree program, to prepare you to succeed in today's diverse and evolving workplace.

From day one, you can learn important analytical and communication skills, such as problem solving, reasoning and analysis, academic and professional writing, and mathematics and statistics skills. These skills can better equip you to work across cultures and understand a wide range of concepts that influence your area of study.

General Education Coursework:

- Communication Skills
- Humanities
- Mathematics
- Natural Sciences
- Personal and Professional Development
- Social Sciences

CORE-DEGREE COURSEWORK

*all
of these
courses*

- BUSN-115 Introduction to Business and Technology
- COMP-100 Computer Applications for Business with Lab
- WGD-201 Visual Design Fundamentals
- WGD-205 Advanced Design and Rapid Visualization
- WGD-210 Digital Imaging Fundamentals
- WGD-229 Information Design
- WGD-232 Web Design
- WGD-235 Web Animation
- WGD-242 Advanced Web Design
- WGD-250 Instructional Design for Multimedia
- WGD-260 Media Portfolio

General Education Coursework (credit hours)	50
Core-Degree Coursework (credit hours)	+ 39
Career-Focused Coursework (credit hours)	+ 36
Approximate Credit Hours Required for Graduation (Eight Full-Time Semesters to Complete)	125

Note: DeVry's academic catalog, available via www.devry.edu/uscatalog, contains the most current and detailed program information, including graduation requirements.



Bachelor's Degree Program Multimedia Design & Development

Specialization: *Web Game Programming*

ABOUT THIS SPECIALIZATION

DeVry University's bachelor's degree in Multimedia Design and Development can provide you with a solid foundation in design functionality and digital creation. Our specialization in Web Game Programming can further prepare you to reach your individual career goals.

The creation of advanced and realistic visuals have raised our expectations of what we see on the web. Developers of many types of websites from online gaming with avatars to browsing for coupons have gone from static, one-dimensional websites to dynamic and interactive, two- and three-dimensional websites. This "gamification" trend, which is visible in services like Groupon, geolocation apps like Foursquare and a wide variety of consumer goods sites, has been heralded by some as the next big frontier for the web.

With a specialization in Web Game Programming from DeVry University, you can become a part of a new wave of web and mobile designers and developers who are creating entertaining interactions that keep consumers engaged and involved with their favorite brands.

You can learn the principles of both competitive and collaborative game play. You will study common coding and scripting languages and become proficient in the industry-specific software programs; including HTML5, used to build today's websites. Once you have earned your degree, you can be prepared to bring game logic and functionality to a variety of interactive platforms.

Graduates of DeVry University's Multimedia Design and Development degree program with a specialization in Web Game Programming may consider careers including:

- Curriculum and Designer and Trainer
- Interactive Multimedia Developer
- Multimedia Designer
- Multimedia Producer
- Web Game Programmer

According to the Bureau of Labor Statistics, employment of computer network, systems and database administrators, including web developers, is expected to grow by 13 percent from 2008 to 2018. According to their *Occupational Outlook Handbook*, "as the number of services provided over the Internet expands, Web administrators and developers will continue to see employment increases."¹

¹Bureau of Labor Statistics, U.S. Department of Labor, *Occupational Outlook Handbook, 2010-11 Edition*, Computer Network, Systems and Database Administrators, on the Internet at www.bls.gov/oco/ocos305.htm (visited March 30, 2011).

²DeVry University, on the Internet at www.devry.edu/degree-programs/college-media-arts-technology/web-game-programming-about.jsp.

³O*NET OnLine, Web Developers, on the Internet at www.online.onetcenter.org/link/summary/15-1099.04 (visited March 11, 2011).

In New York, DeVry University operates as DeVry College of New York. Program and course requirements and availability vary by location. Some courses may be available online only. Refer to the current academic catalog for more detailed information. DeVry University operates as DeVry Institute of Technology in Calgary, Alberta. DeVry is certified to operate by the State Council of Higher Education for Virginia. AC0060. DeVry University is authorized for operation by the THEC, www.state.tn.us/thec. Nashville Campus – 3343 Perimeter Hill Dr., Nashville, TN 37211. ©2011 DeVry Educational Development Corp. All rights reserved. [Version 5/13/11](#)

For comprehensive consumer information visit devry.edu/bmdd

KNOWLEDGE AND SKILLS

SCRIPTING² — Use common computer languages to design and script basic interactive web page components and web-based games.

AUTHORING² — Use multimedia authoring tools and techniques to create web-based games and dynamic web pages.

COMPUTER ANIMATION² — Use multimedia tools and techniques to integrate movie clips, sound effects, images and animations into projects.

GAME DESIGN² — Study standard principles using object-oriented game engines with libraries to develop sample games.

WEBSITE DEVELOPMENT² — Learn to use cascading style sheets (CSS), databases, server-side scripting and more.

SERVER MAINTENANCE³ — Understand how to configure and maintain game server software with tools like ActionScript.TM

CODE REVIEW³ — Learn to evaluate code to ensure that it is valid and properly structured; meets industry standards; and is compatible with browsers, devices or operating systems.

CAREER-FOCUSED COURSEWORK

all
of these
courses

- MDD-310 Multimedia Standards
- MDD-340 Business of Graphics
- MDD-410 Emerging Multimedia Technologies

all
of these
courses

- WBG-310 Interactive Web Page Scripting with Lab
- WBG-340 Programming Multimedia for the Web with Lab
- WBG-370 Game Development with Lab
- WBG-410 Dynamic Website Development and Database Integration with Lab
- WBG-450 Multiplayer Online Game Development with Lab

all
of these
courses

- MDD-460 Senior Project I
- MDD-461 Senior Project II

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