

University of Southern California
VITERBI SCHOOL OF ENGINEERING

Master of Science in Computer Science (Game Development)

Program Learning Objectives

The purpose of the USC Viterbi School of Engineering Master of Science in Computer Science (Game Development) program is to prepare students for high level professional employment in any sector of computer science that incorporates engineering next generation games and simulations and their required technologies; or to pursue advanced graduate studies focusing on related problems in the field. Graduates might pursue computer science-related employment or advanced graduate study in the entertainment or serious game fields.

- Upon completion of the USC Master of Science in Computer Science (Game Development) program, students will be able to demonstrate broad understanding of engineering-oriented game development focusing on game development infrastructure, cognition and games, immersion, and serious games.
- Upon completion of the USC Master of Science in Computer Science (Game Development) program, students will be able to apply critical principles and skills pertinent to MSCS (Game Development) duties in their employment and professional practice.
- Upon completion of the USC Master of Science in Computer Science (Game Development) program, students will be able to work in diverse global contexts and apply universally respectful and globally centric practices pertinent to MSCS (Game Development) duties in international and domestic contexts.
- USC students enrolled in the Master of Science in Computer Science (Game Development) program will demonstrate understanding of contemporary research questions, results, and areas of application relating to the development of computer games.