Augmented and Virtual Reality Professional Certificate (50.0411)

This continuing education certificate teaches the skills needed to develop virtual reality (VR) and augmented reality (AR) environments and experiences. Students will learn the core principles of AR and VR and the cutting-edge technologies needed to design interactions using the best development platforms available. Taught by industry experts, students learn through hands-on application of real-world examples and concepts. The certificate includes instruction in producing audio for immersive experiences, building AR and VR apps for mobile devices, coding and programming, scripting for non-linear environments, and developing interactive experiences using an industry-standard game engine. Completing the program empowers learners to take advantage of their creative ideas and pursue employment opportunities in a rapidly growing industry.

Upon completion of this certification, students should be able to:
- create AR experiences where virtual objects interact with the real world;
- create a virtual environment using models and terrain deformation;
- distribute VR/AR experiences to mobile devices;
- analyze the differences in story structure and presentation formats for all forms of immersive media and apply that knowledge by choosing the most appropriate presentation format for any given project;
- devise a script and translate a story into immersive media pre-production documents to convey a vision to producers, clients, and crew;
- demonstrate a strong understanding and practical knowledge of VR audio applicable across an increasing number of industries; and
- analyze the different approaches for producing audio for different environments.

Required Courses:
INMD 1200 Producing Augmented and Virtual Reality Experiences
INMD 1201 Developing Augmented and Virtual Reality Apps
INMD 1210 360 Audio Production for Virtual Reality