

## **Virtual Immersive Teaching and Learning (VITaL) at San Diego University**

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In Fall 2017, Instructional Technology Services (ITS) at San Diego State University (SDSU) launched the Virtual Immersive Teaching and Learning (VITaL) initiative, providing a variety of virtual reality (VR), augmented reality (AR), mixed reality (MR), and 360°-video immersive tools for use across the SDSU pedagogical spectrum. Today, VITaL serves as an incubator to enable experiences that would be out of reach—if not impossible—in a traditional learning environment, including low-frequency, high-risk scenarios simulating life-threatening medical conditions, celestial events in outer space, and scientific phenomena occurring at the micro scale. The new VITaL Learning Research Studio (LRS) promotes experimentation with curriculum design and the scholarship of teaching and learning in a flexible, collaborative, and technology-rich environment. In its inaugural year, the VITaL initiative facilitated immersive teaching, learning, and research in 26 courses across all seven colleges at SDSU. Beyond the use of VITaL for teaching and learning, ITS is collaborating with universities and industry partners to study the impact, expand the knowledge base, and foster a community of practice around this emerging field. This presentation will address the logistics of supporting teaching, learning, and research with immersive technology in a higher education environment. Additionally, findings and discussion of the SDSU nursing HoloLens study will be discussed, including a demonstration of the HoloPatient software via Microsoft HoloLens.