Case Study
Ryerson University
An Augmented Learning Experience

nextech **AR**
solutions

Introducing the Augmented Learning Experience

Ryerson University is Canada's leader in innovative, career-oriented education. Urban, culturally diverse, and inclusive, the university is home to more than 46,000 students, including 2,900 Master's and Ph.D. students, 3,800 faculty and staff, and more than 216,000 alumni worldwide. Ryerson University has chosen NexTech's InfernoAR for Augmented Reality Remote Learning solutions. But what does it entail?

"At Ryerson we took the bold step of re-imagining a virtual lab. With inputs from staff, students and faculty we designed and developed a completely collaborative environment that ensures an immersive and fun learning experience for our students. The incorporation of augmented reality into the STEM learning environment will change pedagogy forever. "

Dr. David Cramb
Dean of the Faculty of Science
Ryerson University

Problem

COVID-19 has created a huge challenge for learning institutions globally, especially in labs where student and subject matter interaction is so critical to learning. In the struggle to keep learning alive, instructors, teachers and administrators must find an alternative method to provide the same quality of education that's delivered in the classroom.

Solution

Ryerson and NexTech AR sat together to design a platform that would help fill the gap between theory and practice for first year Chemistry, Biology and Physics students from the Faculty of Science at Ryerson, and enable over 5,000 students to participate in rich, collaborative AR enhanced learning experiences during the Fall and Winter Terms.

With this solution, the institution offers a 24/7, borderless environment that allows students to learn and enjoy a "simuli-hands-on" experience while they are unable to attend a physical lab.

The design and testing of the AR lab involved teachers and students ensuring the platform covered all learning requirements necessary to validate the program.
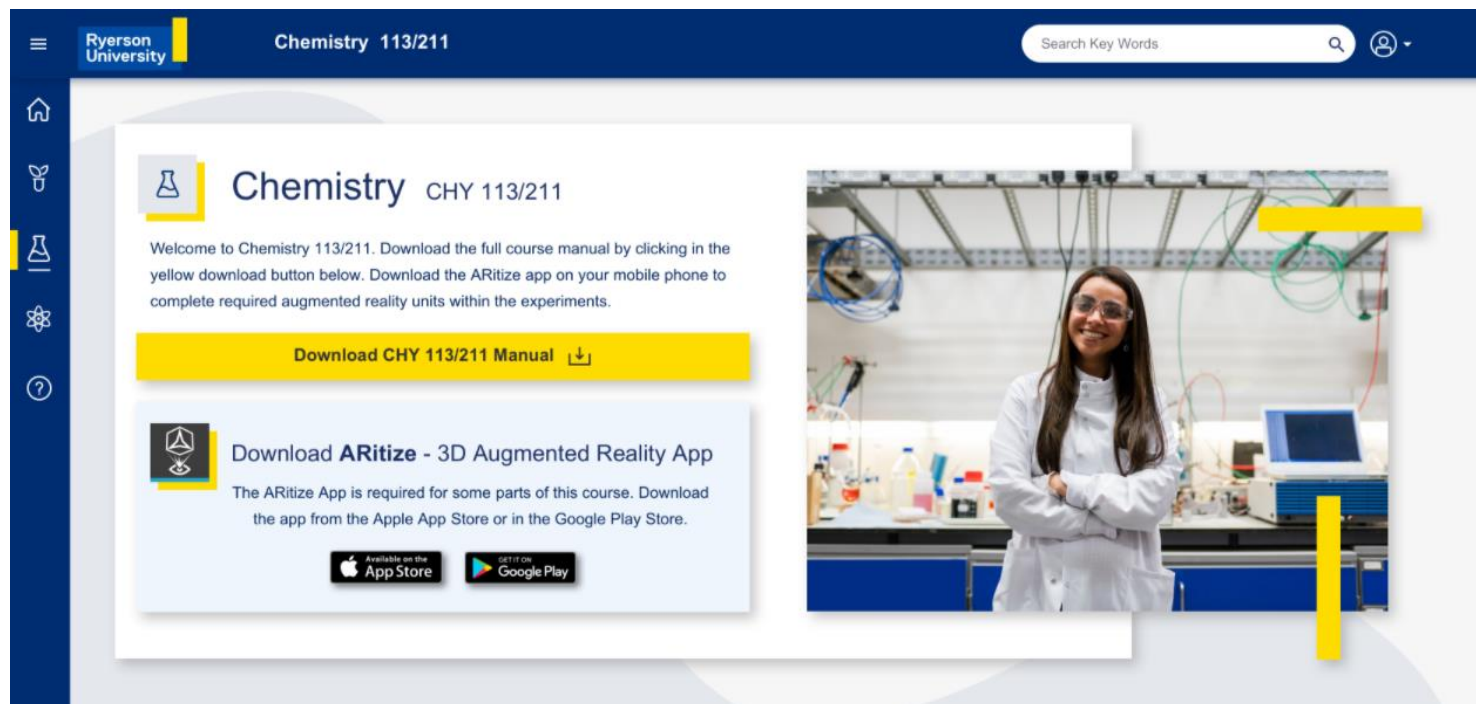
Benefits

Built with the learning journey in mind, the InfernoAR platform offers a secured and flexible environment, 24/7 availability, and can host a variety of resources. NextechAR and Ryerson UX designers worked together to create a modern, easy to navigate interface, with clear paths to get to lab completion.
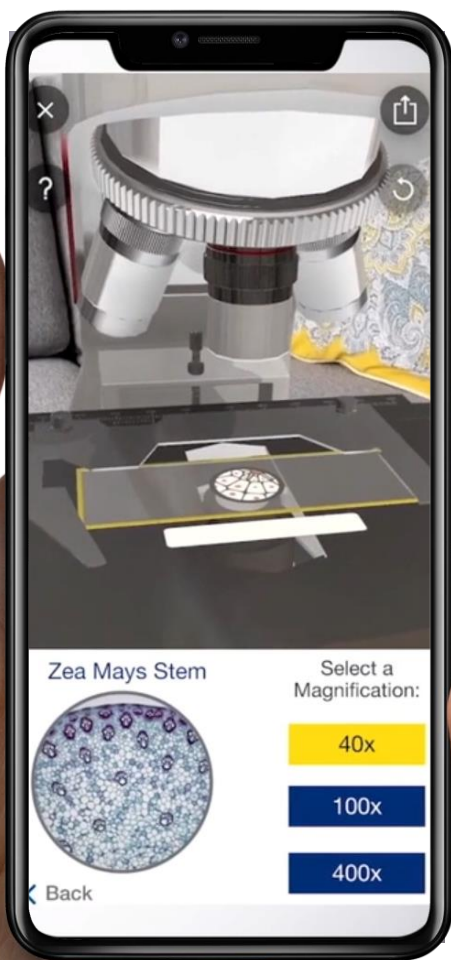
These labs are a perfectly balanced combination of assessments, live and on demand video sessions, live meetings, downloadable resources, and of course, Augmented Reality.

You can see a sample of the RALE here - [please click to view video](#)

Augmented Reality Holograms brings the lab into your home

Augmented reality fills the gap between theory and practice by providing a fully immersive, risk-free, error-free experience that is very close to a hands-on practice. While it does not replace touch and physical manipulation, its ease of use makes it a perfect too for students, accessible with a simple smartphone or tablet that most are equipped with, that allows them to explore and replay at their own pace. Unlike on-campus labs, AR labs are open 24/7 without having to commute, book a room, refill consumables or clean any equipment.

You can explore the AR labs here

For more information, visit ryerson.ca and www.nextechar.com/higher-education