

DigitalEd Helps University of the Sciences Deliver Engaging Online Learning in STEM While Better Supporting Faculty Needs



THE CHALLENGE

Faculty in the Department of Mathematics, Physics and Statistics at University of the Sciences wanted to expand online offerings while keeping courses engaging and effective for students. They also had to quickly pivot to online instruction during the COVID-19 pandemic. This shift to online learning required faculty to be innovative in delivering courses to ensure continued student engagement.



THE LEARNING IMPACT OUTCOME

One of Möbius' features that faculty found invaluable is the ability to collaborate with colleagues. The system allowed faculty to control their content, collaborate on building content, and support each other and share ideas on teaching.

“We’re all different when we teach,” Kimchuk said. “Faculty could use the material and teach from it. However, if you want to change the problems, you can change them. Adapting the practice problems to what our faculty wanted the students to do was a lot better.”

The automatic grading provided more practice for students without creating additional work for faculty. Students could also get more help in areas where they needed additional practice and easily navigate to sections of lessons.

“The best part is that it’s more interactive (for students),” said Kimchuk.



THE SOLUTION

Faculty members Edward Reimers and Amy Kimchuk found that the Möbius platform allowed faculty to work collaboratively to build engaging online courses through a user-friendly platform. Through Möbius, faculty had the flexibility to modify the learning content to teach in a way that fit their individual needs. University of the Sciences used DigitalEd’s Möbius platform to provide engaging online learning experiences in mathematics courses, while supporting the teaching needs of faculty. Rather than being stuck with a textbook’s standard question set, faculty could adapt content and questions whenever they needed.



THE RETURN ON INVESTMENT

The user-friendly platform and the ability to collaborate saved faculty time and allowed them to work together to provide engaging, immersive experiences for students learning complex STEM subjects online. The platform allowed for easy customization of content, problems, and assessments. The platform also saved students on the cost of textbooks, which was a priority for faculty, by providing students with access to a year-long, affordable license. Möbius has worked so well for both faculty and students that it was expanded to be used by all sections of Pre-Calculus, Calculus, College Algebra, and Trigonometry at the University.