

Online courseware environment
that puts **STEM** *first*



Möbius™



Möbius™ is a comprehensive online courseware environment that focuses on science, technology, engineering, and mathematics (STEM). It is built on the notion that people learn by doing. With Möbius, your students can explore important concepts using engaging, interactive applications, visualize problems and solutions, and test their understanding by answering questions that are graded instantly. Throughout the entire lesson, students remain actively engaged with the material and receive constant feedback that solidifies their understanding.

Five Reasons to Choose Möbius

Here are just five of the many reasons instructors and academic institutions choose Möbius for their online offerings:

- ① Keep students engaged and learning in a hands-on environment
- ② Provide constant feedback so students know what they know
- ③ Truly assess student understanding, without being limited by the technology
- ④ Measure the effectiveness of your learning materials
- ⑤ Provide students with better online content, with less effort

Course Content Developed by Experts!

Maplesoft has partnered with the University of Waterloo, one of the largest institutions in the world for STEM education, to provide institutions and professors with rich online courses and materials that enable students to learn by doing. These Möbius courses are created by experts at the University of Waterloo for use by their own students and for their outreach programs, and will be made available to other Möbius users. Course materials range from late high school to the graduate level, with the initial offerings available soon and many more to follow.



Learn by Doing

Today's students are used to instant results in almost everything they do. Möbius allows you to integrate powerful, dynamic learning and assessment tools throughout your online course materials, so your students receive constant feedback that keeps them engaged and on-track.

- Integrate **meaningful, automatically-graded assessment questions** into lessons and narrated lectures, in addition to formal assignments, so students can test their understanding as they go.
- Provide **interactive applications for exploring concepts** in ways not available in a traditional classroom.
- Leverage **powerful algorithmic questions** to provide practice for students as they master concepts, as well as individual summative assessments.
- Incorporate **engaging, enlightening visualizations** of concepts, problems, and solutions, through a wide variety of 2-D and 3-D plots and animations that students can modify and explore.

Get a Personalized Demo

Möbius is designed to help academic institutions move their STEM courses online, providing a rich development and deployment environment that meets the particular challenges of math-based courses. From individual lessons and textbook supplements, to full courses, remedial materials, enrichment content, outreach programs, and more, Möbius will help you provide an engaging, effective online learning experience for your students.

If you are involved in a project to develop online education materials for STEM courses, let us show you how Möbius can help!

Request your personalized demo today! www.maplesoft.com/mobius

Everything You Need

Designed especially for mathematics, science, engineering, and technology courses, Möbius provides the tools you need to author and deliver rich, engaging online offerings for STEM education.

- Create **interactive narrated lectures** that incorporate exploration and self-assessment elements.
- Use **standard math notation** for authoring, display, and student responses.
- Choose from **thousands of Math Apps and assessment questions** from mathematics, statistics, physics, engineering, and more, which are freely available for you to use and customize in your own materials.
- Develop **custom interactive applications for exploring concepts** using Maple™ or HTML5.
- Create **meaningful assessment questions** that will be automatically graded by the Maple T.A.™ testing engine, a system that understands mathematics.
- Generate **powerful visualizations** by leveraging a large collection of customizable plots and animations.
- Collect **outcome data** throughout the entire learning process so you can track student success and identify areas for improvement.
- **Help students keep track of due dates** and important course deadlines with an integrated calendar.

- **Integrate Möbius with course management systems**, such as Blackboard®, Canvas, Brightspace™, and Moodle™.
- Provide **student access from computers and mobile devices** using only a standard web browser.

Your Content, Your Rules

When you use Möbius to develop and deliver your online offerings, you remain in full control of your content and the learning experience.

- **Bring your online vision to life**, including online courses, open-access courses, formative testing, placement and remediation programs, independent learning, outreach programs, and flipped or blended classrooms.
- **Provide exactly the content you want**, from individual lessons and textbook supplements, to full courses, remedial materials, enrichment content, and more.
- **Choose the learning experience** by allowing students open access to your course material or guiding them along a specific learning path.
- **Stay in control of your content**, creating and customizing materials as you wish to suit your needs.
- **Save your students money** by dropping a traditional textbook, while simultaneously improving the learning experience.

