



# Teaching and Learning STEM: A Practical Guide

*Richard M. Felder, Rebecca Brent*

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**Rethink traditional teaching methods to improve student learning and retention in STEM**

Educational research has repeatedly shown that compared to traditional teacher-centered instruction, certain learner-centered methods lead to improved learning outcomes, greater development of critical high-level skills, and increased retention in science, technology, engineering, and mathematics (STEM) disciplines.

*Teaching and Learning STEM* presents a trove of practical research-based strategies for designing and teaching courses and assessing students' learning. The book draws on the authors' extensive backgrounds and decades of experience in STEM education and faculty development. Its engaging and well-illustrated descriptions will equip you to implement the strategies in your courses and to deal effectively with problems (including student resistance) that might occur in the implementation. The book will help you:

- Plan and conduct class sessions in which students are actively engaged, no matter how large the class is
- Make good use of technology in face-to-face, online, and hybrid courses and flipped classrooms
- Assess how well students are acquiring the knowledge, skills, and conceptual understanding the course is designed to teach
- Help students develop expert problem-solving skills and skills in communication, creative thinking, critical thinking, high-performance teamwork, and self-directed learning
- Meet the learning needs of STEM students with a broad diversity of attributes and backgrounds

The strategies presented in *Teaching and Learning STEM* don't require revolutionary time-intensive changes in your teaching, but rather a gradual integration of traditional and new methods. The result will be continual improvement in your teaching and your students' learning.

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