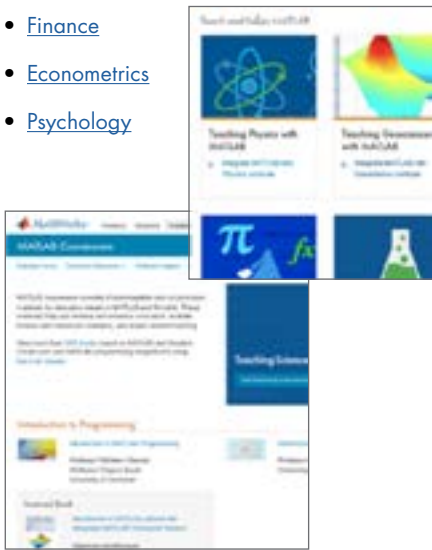# Computational Thinking with MATLAB

"Computational thinking is a fundamental skill for everyone, not just for computer scientists."

— **Dr. Jeannette Wing, Columbia University**

Curriculum Resources: Downloadable teaching resources to shape your courses

Science and Mathematics	Engineering and Computer Science	Social Science
• Calculus	• Introduction to Programming	• Finance
• Different Equations and Linear Algebra	• Introduction to Engineering	• Econometrics
• Physics		• Psychology
• Biology	• Control of Mobile Robots	
• Chemistry	• Aerospace Engineering	
• Earth, Ocean, and Atmosphere	• Bioengineering	
• Neuroscience	• Digital Speech Processing	
• Numerical Computing with MATLAB	• Electrical Engineering	
	• Embedded Control and Mechatronics	
	• Mechanical Engineering	
	• Instrumentation and Measurement	
	• Teaching System Dynamics with Arduino	

Teaching Science: *mathworks.com/academia/courseware/teaching-science-with-matlab.html*
MATLAB Courseware: *mathworks.com/academia/courseware*
MATLAB based textbooks: *mathworks.com/books*

Software Tools for Teaching and Learning

Students can interactively learn computational skills at their own pace, giving educators more time to teach.

- *MATLAB Live Editor:* Author and share interactive MATLAB notebooks

- *MATLAB Grader:* Develop and auto-grade MATLAB code assignments

- *MATLAB Online:* Use MATLAB in your web browser

- *MATLAB Code Examples:* Learn from and reuse MATLAB coding stories

- *MATLAB Onramp:* Learn MATLAB via free interactive online demos

- *MATLAB Tutorials:* Learn with step-by-step video tutorials
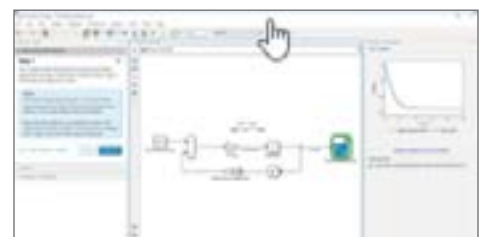
Computational Thinking with MATLAB

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