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January 2012 Newsletter:

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## OCW publishes Linear Algebra, the first of the 2012 OCW Scholar courses

OCW has released a new version of Linear Algebra, one of its most visited courses, in the innovative OCW Scholar format designed for independent learners.

Taught by Professor Gilbert Strang, [18.06SC Linear Algebra](#) addresses systems of linear equations and the properties of matrices. The concepts of linear algebra are used to solve problems in physics, economics, engineering, and other disciplines.

18.06SC is the first of six OCW Scholar courses planned for release by the end of February.

- > [Go to 18.06SC Linear Algebra](#)
- > [Read the complete press release](#)

## New Courses

- [7.346 Cellular Garbage Disposal: Misfolded Proteins in Normal Biology and Human Disease](#)
- [11.S196 Global Freshwater Crisis](#)
- [12.445 Oral Communication in the Earth, Atmospheric, and Planetary Sciences](#)
- [21F.312 Basic Themes in French Literature and Culture](#)
- [21M.380 Music and Technology: Live Electronics Performance Practices](#) 
- [ESD.00 Introduction to Engineering Systems](#)
- [HST.184 Health Information Systems to Improve Quality of Care in Resource-Poor Settings](#) 
- [MAS.111 Introduction to Doing Research in Media Arts and Sciences](#)
- [MAS.961 Networks, Complexity and Its Applications](#)

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- [SP.775 D-Lab: Energy](#)

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## Updated Courses

- [2.019 Design of Ocean Systems](#)
- [2.71 Optics](#) 
- [6.172 Performance Engineering of Software Systems](#) 
- [6.241J Dynamic Systems and Control](#)
- [12.001 Introduction to Geology](#)
- [15.389A Global Entrepreneurship Lab: Asia-Pacific](#)
- [15.389B Global Entrepreneurship Lab: Latin America, the Middle East, and Africa](#)
- [16.30 Feedback Control Systems](#)
- [16.863J System Safety](#)
- [21F.405 Germany Today: Intensive Study of German Language and Culture](#)
- [21H.433 The Age of Reason: Europe from the 17th to the Early 19th Centuries](#)
- [21L.325 Small Wonders: Media, Modernity, and the Moment: Experiments in Time](#)
- [21W.789 Communicating with Mobile Technology](#)
- [ESD.864 Modeling and Assessment for Policy](#)
- [STS.042J Einstein, Oppenheimer, Feynman: Physics in the 20th Century](#)

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## Highlights for High School

Looking for chemistry resources? Then look no further. Check out Highlights for High School's **new** [chemistry](#) resources for exam preparation.

You'll find materials from MIT's introductory courses organized by the topics that you'll see on the AP\* chemistry exam.

> [Go to Chemistry on Highlights for High School](#)

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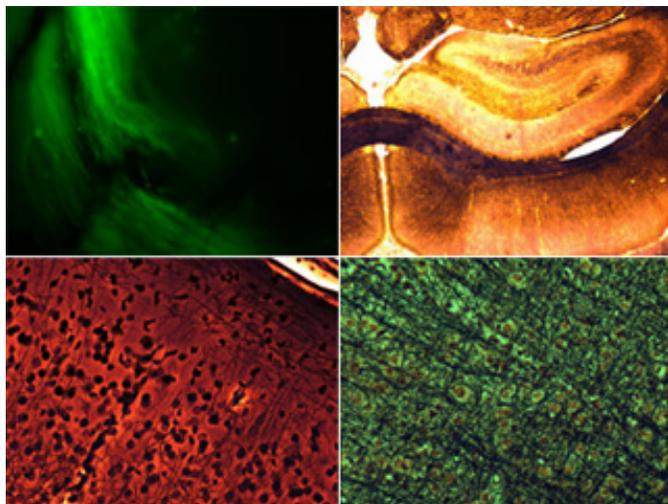
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## Courses in Context: Neurological Roots of Conflict



Histological stains and fluorescent tracers of fiber tracts, structures, and cells in the brain. (Photos courtesy of Serkan Oray.)

MIT neuroscientists are trying to identify patterns of brain activity that correspond with empathy. They hope to use these measures to determine how well people respond to reconciliation programs which aim to increase empathy between groups in conflict.

The following courses examine the neurological aspects of the brain.

- [9.01 Neuroscience and Behavior](#) 🎧
- [9.10 Cognitive Neuroscience](#)
- [9.65 Cognitive Processes](#)
- [9.68 Affect: Biological, Psychological, and Social Aspects of "Feelings"](#)

> [See more courses on Brain and Cognitive Sciences](#)

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## Views from Supporters



"OCW is worth supporting. To be able to provide such a cutting-edge information to the world freely is already a herculean act of generosity.

To make it available to those needed, we need to support them, lest I become the nasty ungrateful free rider.

Thanks for generously provide it to all of us! "

-Sigit, Independent Learner, Indonesia

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Tell us what you think of OCW at [ocw-feedback@mit.edu](mailto:ocw-feedback@mit.edu).



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