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February 2012 Newsletter:

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### New OCW Scholar Courses

Additional OCW Scholar courses are now available!

Organized by Professor Haynes Miller and Dr. Jeremy Orloff, [18.03SC Differential Equations](#) includes lecture videos, exams and solutions, and interactive Java® demonstrations. Differential equations are important to scientists and engineers who need to model natural systems and solve engineering problems.

Created under the direction of Professor Jonathan Gruber, [14.01SC Principles of Microeconomics](#) uses conceptual, mathematical, and graphical approaches to microeconomic principles presented through lecture videos, recitation materials and interactive concept quizzes. Microeconomics addresses topics including supply and demand, utility, and pricing.

[6.01SC Introduction to Electrical Engineering and Computer Science I](#) provides an integrated introduction to electrical engineering and computer science and is taught using substantial laboratory experiments with mobile robots. You'll learn to appreciate and use the fundamental design principles of modularity and abstraction in a variety of contexts from electrical engineering and computer science.

- > [Go to 18.03SC Differential Equations](#)
- > [Go to 14.01SC Principles of Microeconomics](#)
- > [Go to 6.01SC Introduction to Electrical Engineering and Computer Science I](#)
- > [See all OCW Scholar Courses](#)

### New Courses

- [11.027 City to City: Comparing, Researching and Writing about Cities: New Orleans](#)

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- [11.941 Urban Climate Adaptation](#)
  - [21A.265 Food and Culture](#)
  - [STS.050 The History of MIT](#)
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## Updated Courses

- [2.854 Introduction to Manufacturing Systems](#)
- [3.021J Introduction to Modeling and Simulation](#)
- [17.100J Political Economy I](#)
- [MAS.836 Sensor Technologies for Interactive Environments](#)



## Supplemental Resource

- [RES.14-002 Abdul Latif Jameel Poverty Action Lab Executive Training: Evaluating Social Programs](#)



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## Highlights for High School

The [FIRST Robotics Competition](#) is only a couple of months away!

Teams around the nation are already hard at work creating and engineering their robots for this fierce competition.

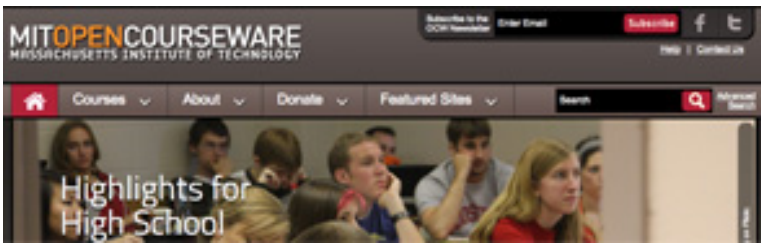
Consider building your own robot and use Highlights resources on [robot design](#), [robocraft programming](#), and [design and manufacturing](#).

These OCW resources may be helpful too: [Intro to robotics](#), and [Lego robotics](#).

- > [Find out more about regional FIRST events](#)
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[MIT Notice](#)

## Courses in Context: Preparing for MITx - 6.002x



In December, MIT announced a new online learning initiative called "MITx". Registration is now open for the pilot course, 6.002x Circuits and Electronics. [Enroll for free now.](#)

If you are interested in taking 6.002x, you'll find materials on the OCW site that can help you prepare. Prerequisite courses for [6.002](#) when taught on the MIT campus are [18.03 Differential Equations](#) and either [8.02 Electricity and Magnetism](#) or [6.01 Introduction to Electrical Engineering and Computer Science I](#).

Listed on OCW are materials from these courses, including links to our unique OCW Scholar versions of [18.03SC](#), [8.02SC](#) and [6.01SC](#) which are designed specifically for independent online study.

You'll also find links to materials from courses that build on the knowledge developed in 6.002 and provide opportunities for further study. Please note that no certificates or recognition of study are available for OCW or OCW Scholar courses.

> [See related curriculum on OCW](#)

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## Views from Supporters



"I donate to OCW because I value MIT's contribution to the world. I appreciate your school's selfless act of sharing it's talent with those of us who would not be able to have such a wonderful experience.

I, myself, am enjoying listening to lectures on material I was once skilled at, but have lost through time. It's nice to be able to sit and listen while a skilled professor explains the material to me once again on my own schedule and for free.

I won't forget this valuable service you have provided me. I plan to continue to donate to your cause and I will give more when I am financially able."

-Elizabeth, Educator - High School, USA

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