

## November 2013 Newsletter

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### Current Events in Context



On October 26, 2013, Marylanders from across the state marched for the human right to healthcare. Image by [United Workers](#).

The [Affordable Care Act](#) intends to reform American health insurance so that all Americans would have access to affordable health insurance. The law also protects consumers from any unscrupulous insurance company practices.

The government launched, [healthcare.gov](#), a website that would help consumers find coverage within the available health insurance marketplace. Unfortunately the website has not been able to sustain the amount of web traffic it's received nor manage the number of consumers trying to sign up for insurance.

Though there are fixes in progress, the website is not completely functional. The following resources may help explain the complexities of healthcare in the US and the technical work involved in setting up such a website:

- [HST.921 Information Technology in the Health Care System of the Future](#) teaches how information technologies are reshaping and redefining the health care marketplace through improved economies of scale, greater technical efficiencies in the delivery of care to patients, advanced tools for patient education and self-care, network integrated decision support tools for clinicians, and the emergence of e-commerce in

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We hope you learned something new or refreshed your memory on a topic you've previously studied.

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health care.

- [17.315 Comparative Health Policy](#) examines in comparative prospective the health care policy problems facing the United States including providing adequate access to medical services for all, the control of rising health care costs, and the assurance that the quality of health care services is high and improving.
- [ESD.69 Seminar on Health Care Systems Innovation](#) applies a systems perspective to understand health care delivery today, its stakeholders and problems as well as opportunities.
- [15.768 Management of Services: Concepts, Design, and Delivery](#) explores the use of operations tools and perspectives in the service sector and builds on conceptual frameworks and cases from a wide range of service operations, including health care.
- [Introductory Programming Courses](#) is a list of courses that introduce broad principles of computer science and programming.

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### New Courses

- [6.S079 Nanomaker](#)
- [8.03SC Physics III: Vibrations and Waves](#)

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### Updated Courses

- [9.85 Infant and Early Childhood Cognition](#)
- [15.628J Patents, Copyrights, and the Law of Intellectual Property](#)

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### Highlights for High School



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OCW is grateful for the support of:



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[MIT Notice](#)





Two students run a chemistry experiment in the lab. Image courtesy of George Zaidan.

Are you a high school student? Did you know there is a special section just for you on Highlights for High School?

Our "Introduction for Students" will showcase how other students use OpenCourseWare, will explain how you might use the site, and will connect you to the MIT Admissions Office in case you are interested in becoming an MIT student one day.

[> Visit For Students on Highlights for High School](#)

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### MITx News: MITx announces new Aeronautics XSeries certificate, pricing for XSeries programs

*XSeries programs to be priced at \$50.00 to \$100.00 per course*

CAMBRIDGE, MA, November 21, 2013 – MITx, the massive open online course (MOOC) program at MIT, is announcing its third XSeries program, *Aerodynamics*. XSeries programs offer recognition for completion of a series of related MOOCs. In September, MITx announced the first two XSeries programs, *Fundamentals of Computer Science* and *Supply Chain Management*.

The new Aerodynamics XSeries includes two courses: *16.101x Introduction to Aerodynamics*, which is currently running on the edX site, and *16.110x Flight Vehicle Aerodynamics*, which will begin in early 2014. Students currently enrolled in *16.101x* who successfully complete the course will be able to apply it toward an XSeries certificate at no charge.

"This XSeries combines the fundamental principles of fluid mechanics with the modeling concepts and techniques used in aerodynamic analysis and design of modern aircraft," says *16.110x* instructor Professor Mark Drela in describing the program. "It gives the students a solid grounding in the discipline of aerodynamics, and provides the skills they need to apply that knowledge."

The Aerodynamics XSeries takes students from the fundamentals of fluid mechanics to their application in

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- Supply Chain Management

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Image by swisscan

aerodynamics. Students gain a conceptual understanding of critical fluid dynamic phenomena from boundary layers to shock waves, and develop a firm foundation in the aerodynamic methods used to analyze and design modern aircraft. The concepts learned are relevant to other areas including wind turbines, hydrodynamics, and even bird flight. The XSeries is appropriate for students with a solid background in mechanics, vector calculus, and differential equations.

### *XSeries pricing announced*

MITx is also announcing pricing for XSeries courses, which will be \$50.00 for short courses such as the components of the *Fundamentals of Computer Science* XSeries and \$100.00 for longer courses, such as those in the *Aeronautics XSeries*. All courses have a free audit option and the course fees cover identity verification and support MITx and edX sustainability. The same pricing structure will be used for standalone MITx courses that offer identity verification as well.

> [Read the complete press release](#)

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### **Views from Supporters**



"What more liberating feeling can there be than freely offering your knowledge to others?"

From time to time, I have freely given my time to lecture at my old alma mater (University of NSW) and, of more recent date, I have run free workshops

with clients and even my office colleagues.

Why? Because I love learning and sharing what I've learnt with others.

The natural high and personal satisfaction that I get from doing this is more than ample reward and would be diminished by any financial benefit that I might otherwise gain.

What MIT is doing is liberating and enriching. My small contribution gives me something of that satisfaction that derive from my own 'sharing.'

In a world that seems bent on exploitation, the OCW program is a beacon of philanthropy for an enlightened future. "

- Paul, Independent Learner, Australia

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Tell us what you think of OCW [here](#).



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