

2014 Summer Series on Solving the World's Big Challenges



The Global Classroom series explores the critical trends, challenges and solutions to some of our world's most pressing problems. Building Resilient Cities

Resiliency is about cities adapting to the change that is occurring in our climate and preparing against future catastrophic events.

How do we prepare for more flooding and increasing drought and wildfires?

How do we prepare for sea level rise and spreading infectious disease?

Will we see climate refugees and food shortages?

Cities and countries are investing resources to advance sustainability, but insufficient amount is being implemented to make them more resilient. Many designers are now imploring us to develop cities that can cope with climate changes and challenges of the uncertain future.

In this 12-week program, you will be developing strategies to handle against the global and local concerns regarding the escalation in carbon emissions. You will be assessing the risks within each of the sub-systems, and innovations being developed to combat these challenges. Candidates should bring an interest in global issues, environmental sciences, sustainable development and problem solving.

Challenges being addressed from two books:

Resilient Sustainable Cities: A Future

**Sustainable and Resilient Communities:
A Comprehensive Action Plan for Towns, Cities,
and Regions**

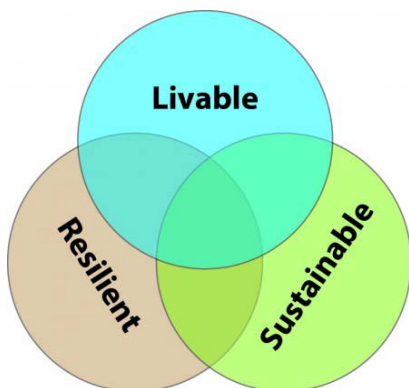
Topics in Each Week:

- Resilience vs. Sustainability
- Systems Stressors within the region and from the outside
- Interconnected sub-systems: (Economic, Social, Environmental, and the built environment)
- Innovation as solution: food and water security, transportation and transit, energy and efficiency, network technology, social inclusion, waste streams, buildings and urban design and technology
- Policies to prepare and Leadership that fosters change

Weekly Schedule:

June 3 - August 29, 2014

- 1 Security for our Future Cities
- 2 Mass Centralized Transportation
- 3 Flooding Coastlines
- 4 Protection of Crop Yields
- 5 Shift in Sustainable Energy
- 6 Unifying Waste Infrastructure
- 7 Sanitation of Humanity
- 8 Green Buildings
- 9 Absorption of Pollution
- 10 Redesigned Urban Infrastructure
- 11 Summary & Priorities



Partners



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