



# Tech, Trends, & Policies Transforming the Food System

—with Justin Siegel, acting Director of the Innovation  
Institute for Food and Health, UC Davis

## COURSE DETAILS:

**OCTOBER 3–NOVEMBER 4, 2016**  
ALL ONLINE (mostly asynchronous)

**\$295 USD THROUGH SEPTEMBER 19**  
**\$450 USD AFTER SEPTEMBER 19**

## WEEKLY COURSE SAMPLING

### WEEK ONE

- Course overview
- Introduction to the challenges we face
- Form teams

#### SAMPLE ACTIVITY:

**Theme: Overview to Tech, Trends, and Policies.** Watch Carolyn Steel's video [How Food Shapes our Cities](#). Read [Is Food Unwinnable for Startups?](#) **Discuss** in your groups: "Of the challenges we face today which are the most amenable to change based on historical precedence? Which are least amenable?"

### WEEK TWO

- Tech, Trends, and Policies on GMOs
- Precision agriculture
- Urban farms

#### SAMPLE ACTIVITY:

**Theme: Production.** Read the review ["Urban Vegetables for Food Security in Cities"](#) from Agronomy for Sustainable Development. In your groups, **discuss**: Urban Farming has appeal but similar to smart agriculture it is not always adopted. Are introductory technologies needed, or infrastructure required, to enable widespread adoption?

### WEEK THREE

- Food safety
- Nutrient sourcing
- 3D Printing and food

#### SAMPLE ACTIVITY:

**Theme: Preparation.** Read ["Making a Steak Without the Cow"](#) and watch the included video. **Complete an analysis** of the major bottlenecks and advantages. What other markets do you think will benefit from re-thinking the source to re-create or improve a well-established product. **Storybook** your response.

### WEEK FOUR

- Delivery systems
- The MicroBiome
- Personalized nutrition

#### SAMPLE ACTIVITY:

**Theme: Consumption.** To date, no one has evaluated the health effects of a single nutrient at the level of a phase-3 clinical trial, routinely conducted for drugs, (i.e., we know more about the drugs in our cabinet than ingredients in our fridge). Should this issue be addressed through public, private, or joint efforts? In teams, **discuss** and **create a position paper** that supports your position.

### WEEK FIVE

- Compost
- Energy generation
- Waste reduction

#### SAMPLE ACTIVITY:

**Theme: Disposal.** Watch [John Oliver's episode on Food Waste](#). Is it possible to utilize waste to feed the food insecure? **Evaluate** your peer's systems for factors impacting food safety and economic stability. These activities may require the utilization of new systems and technologies across the food system learned during the course. Let's see you put them to use!

*"This course will expose you to some of the brightest minds and biggest names in food system innovation from across the globe—unpacking their research, sharing predictions, and presenting approaches to transforming the food system."*

—Will Rosenzweig, FBS Dean