



Essentials of Nutrition & Sustainability

—with Bruce German, Professor & Chemist,
Food Science & Tech, 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

- Exploring the groundwork
- Creating a common language
- Forming your teams

SAMPLE ACTIVITY:

Watch The Inner Life of the Cell from the Harvard BioVisions website.

Imagine how food impacts cellular health and life – then write or storyboard the impact you expect to see in the next generation of food – including how it will impact the ways we will think about sustainability.

WEEK TWO

- Food & Sustainability in context
- Science of the 20th Century
- Better living through Chemistry

SAMPLE ACTIVITY:

Consider and then critique a foodbased example where chemistry has been transformative for good and for ill (for example, in the case of hydrogenation or sugar). Analyze how people were helped or harmed as a result of this chemistryconnected transformation and present your analysis as a case-study or caselet.

WEEK THREE

- The crisis of sustainability
- The emergence of Big Agriculture
- The emergence of Big Food

SAMPLE ACTIVITY:

Consider our current state and discuss, in teams, the reasons global food companies have grown so successfully. Analyze the data (like the Big Food Map from OxFarm).

Design a food map that tracks the points of origin of your own food consumption over 72 hours. Report to your groups on what you learned.

WEEK FOUR

- Integrating diet, health, and sustainability
- Working with big data and social networks
- Genomics and the concept of personalization

SAMPLE ACTIVITY:

Explore some common, contemporary myths about current health trends. **Identify** one specific trend that you know is not true and **critique** its success and credibility as connected to the product's social currency and global influence.

WEEK FIVE

- Disrupting existing enterprises
- Envisioning a sustainable planet
- Nourishing a healthier population

SAMPLE ACTIVITY:

Design a diet map and build an audio-visual / media-enhanced walkthrough of the map. Highlight lessons learned in the course and illustrate your plans for connecting the content of the course to your future as a food-system disrupter and innovator.

"New discoveries, particularly in biology, are transforming everything about the food system. Every innovator in food should have a solid understanding of the latest science and how to apply it to business."

-Will Rosenzweig, FBS Dean