Summer Institute for Science Teachers

University College and The Institute for School Partnership is offering 3 graduate courses this summer developed as part of Washington University’s National Science Foundation’s Institute, Life Sciences for a Global Community.

**Plants and People**, Course provides a rigorous introduction to plant sciences and biotechnology, including basic plant biology, photosynthesis, energy capture, and agriculture. The course will use as a framework the following: genetically modified plants, conservation, plant derived medicines, and food and nutrition in the developing world.

**Molecular Basis of Heredity**, Examines the structure of DNA, RNA, DNA repair, and genomics, and provides a rigorous study of what many scientists believe is the most central area of biology. Course builds on the themes of biochemistry and molecular biology introduced in Matter and Energy Transformations. A genomics session will provide an in depth look at some of the topics on molecular evolution that were first covered in Biological Evolution.

**Matter and Energy Transformations**, Using the processes of photosynthesis and respiration as fundamental models, this course will examine energy transformations occurring within organisms and between communities of organisms and their abiotic environment. Topics will include the observations and measurement of energy transformation in living organisms and abiotic fuel cells; the effect of burning fossil fuels on the health of local environments and global warming; and, the effect of alternative fuel options on global environment and health.

For more information and to enroll:
Contact Margo Hathaway
314-935-8974 or Hathaway@wustl.edu

Graduate Application can be found at:
https://ucollege.wustl.edu/graduate-nondegree-application

3 courses
3 weeks
6 graduate credit hours

- Learn from experts in the field
- Lab intensive courses that you can take back into your classroom
- Cohort includes teachers from across the country
- Opportunity to pursue MS in Biology
- Limited Enrollment
- $4,995 for all three courses

July 6-24, 2015
8:00am — 4:30pm
Monday—Friday
Washington University in St Louis
Danforth Campus