Teacher Professional Development

Teaching About Global Change
Summer Institute for Grade 4-12 Teachers

June 20-24, 2016

APPLICATION DEADLINE:  
May 2, 2016

Cost: $400 off campus  
$700 on campus

- **Off campus includes**  
  2 graduate credits, 5 lunches,  
  field trips, classroom supplies

- **On campus also includes**  
  5 nights lodging in MTU’s  
  Hillside Place and all meals

- **Payment due:** May 16, 2016

Register online:  
2016 Global Change Teacher  
Institute Application

or www.wupcenter.mtu.edu

For More Information:  
Joan Chadde, Course Coordinator
Tel: 906.487.3341  
Email: jchadde@mtu.edu

What You Will Gain

- This 5-day Institute will prepare educators to engage middle and high  
  school students in a real-world study of the effects of global change on  
  ecosystems, including the impacts of climate change, elevated carbon  
  dioxide and ozone levels, nitrogen saturation, acid rain, and invasive  
  species.

- Through lecture, hands-on data collection and field trips, participants  
  will interact with scientists and gain new knowledge and skills.

- Teachers will be trained in and receive the Michigan Environmental  
  Education Curriculum Support (MEECS) Climate Science & Impact  
  Unit (easily adapted to other states). National and Michigan science  
  standards will be addressed.

- Visit long-term field research locations that monitor the impacts of  
  nitrogen deposition and climatic variability on forest growth, examine  
  the effects of experimental warming on northern ecosystems, and tour  
  subterranean rhizotron research facility where scientists study soil  
  carbon sequestration.

- Opportunity to interact and collaborate with teachers from across  
  Michigan, the Midwest and U.S.

Learn from the Experts

The Institute will be taught by  
internationally-recognized researchers  
from Michigan Tech University’s  
School of Forest Resources and  
Environmental Sciences, along with  
scientists from the USDA Forest  
Service’s Northern Institute of  
Applied Climate Science, USDA  
Forest Service Northern Research  
Station and expert teachers.

Creating a mini-peatcosm at USDA Research Station.

Conducted by the Ecosystem Science Center of the School of Forest Resources & Environmental Science at Michigan Tech.  
Coordinated by the Michigan Tech Center for Science and Environmental Outreach.
Course Credit & Requirements
Participants will earn 2 graduate credits (ED5641) from Michigan Technological University. Course requirements:
◊ Complete pre-course readings and reflections.
◊ Participate fully in all parts of the Institute.
◊ Develop a 5-day teaching unit after the institute that includes five lessons related to global change (using the rubric provided) and that meets applicable content expectations. Participants should plan to implement the unit during the 2016-17 school year.
Due September 6, 2016.

Master of Applied Science Education
The credits earned from this institute can be applied to a planned course of study for teachers working towards their Professional Certificate or a Master of Science in Applied Science Education at Michigan Tech.

Getting to Michigan Tech
Michigan Technological University is located in Houghton, MI (pop. 7,000). United Airlines is the sole airline serving Houghton (800.241.6522 or www.united.com) with two flights daily from Chicago. Taxi service is available by calling Copper Country Limo & Taxi at 906.482.4761.

Cost*
$400 off campus which includes 2 graduate credits, 5 lunches, field trips, and classroom supplies, or $700 on campus which also includes 5 nights lodging and meals (Monday breakfast through Friday lunch).

Payment due May 16, 2016. Pay by credit card by calling MTU Cashier at 906.487.2247. Payments are non-refundable.

Additional Financial Aid
Teachers may apply for Michigan Space Grant Consortium K-12 Educator Incentive Program funds for up to $400 to attend workshops on math and science. To apply: http://mi.spacegrant.org

Accommodations
Participants staying on campus will stay in single rooms with private baths in Michigan Tech’s new Hillside Place. Meals are all you can eat and cater to many dietary needs. Participants are within easy walking distance to downtown Houghton and Michigan Tech hiking and biking trails.
Find out more about Michigan Tech at http://www.mtu.edu/

How to Apply
Complete teacher institute application online:
2016 Global Change Teacher Institute Application
OR http://wupcenter.mtu.edu/Application

Application Deadline: May 2, 2016
After acceptance into course, participants will receive information via email on how to enroll for Michigan Tech credits from:
Teacher Professional Development Cognitive & Learning Sciences Michigan Technological University Tel: 906-487-2460 Email: teacherpd@mtu.edu