Workshop Series

Audience:
Science and social studies teachers; grades 4—9.

Description:
Don’t miss this opportunity to learn how to teach environmental science in a way that will engage students! The Michigan Environmental Education Curriculum Support (MEECS) contains Michigan-specific units which provide an opportunity for students in grades 3-9 to learn about Michigan’s environment and economy through outstanding, inquiry oriented, data-based lessons in science and social studies. The units have been field tested by 120 teachers in over 200 Michigan classrooms. For more information on MEECS visit the website http://gvsu.edu/s/50.

This MEECS workshop series will focus on three of the seven units in the MEECS curriculum. Each day will consist of a full day (6 hours) of training on a single MEECS unit. The unit will be presented along with the integration of outdoor experiences related to the unit. The units are described below:

Day 1 (June 16): Ecosystems & Biodiversity
This unit examines how organisms interact with their environment using a Michigan context to provide students with a solid foundation in understanding basic ecological principals, as well as the importance of biodiversity as it relates to Michigan’s environment, economy, and society.

Day 2 (June 17): Climate Change
The MEECS Climate Change unit is multi-faceted, comprised of two separate functional units. Climate Change: Science focuses on the physical nature of climate, and focuses on causes, analysis, modeling, and an overall exploration into mechanisms of the Energy Cycle. Climate Change: Impacts focuses on the repercussions of climate change to engage more students to be future-oriented. The effects of climate change are examined at the global and local scales; special emphasis is placed on climate change as it pertains to Michigan and the Great Lakes.

Day 3 (June 18): Water Quality
In this unit, students discover the essential role of water in Michigan’s economy and our lives, calculate direct and indirect water use, explore how Michigan watersheds are connected to the Great Lakes, identify characteristics of healthy streams, analyze Michigan stream data, and investigate challenges to the Great Lakes.

Teachers attending will receive the teacher’s manual and the full packet of materials needed for the lessons including maps, videos, posters, and other print materials. All units are aligned to both the current Michigan Grade Level Content Expectations and the NGSS.

Facilitators:
- Janet Vail, Associate Research Scientist, Annis Water Resources Institute, Grand Valley State University
- Jessica Wagenmaker, Science Teacher, Holton Middle School
- Michael Libbee, Professor of Geography, Central Michigan University & Co-coordinator, Michigan Geographic Alliance

Location
GVSU Allendale Campus
Mackinac Hall

Time
8:00 am—3:30 pm daily

Dates
Day 1
- Tuesday, June 16, 2015
- Grades 4—6
Day 2
- Wednesday, June 17, 2015
- Grades 6—9
Day 3
- Thursday, June 18, 2015
- Grades 6—8

Registration
- Registration fee of $20 per day.
- Participants may elect to attend one, two, or three days of the workshop; registering for any combination of the days.
- Lunch and all materials, including the MEECS curriculum materials for the day’s topic, are included.
- Registration is limited to 25 participants per day.
- Registration deadline is June 5, 2015.

Sponsored by
- GVSU Regional Math and Science Center
- Groundswell Program
- Michigan Department of Environmental Quality
Workshop Series Registration Form

Hosted by GVSU Regional Math and Science Center

Made possible with funding from the Michigan Department of Education.

First Name: ____________________________  M.I. ___  Last Name: __________________________________

Address: ________________________________________  City: ____________________  Zip:  ____________

School: _______________________________________________  District:  ____________________________

Email (that you check during the summer): _________________________________________________________

Grade/Position:  ______________________________________________  Gender:   __ Male   __ Female

Ethnicity:  __ African Am    __ Arab Am   __ Asian Am    __ Caucasian     __ Hispanic    __ Native Am   __ Other

Please select all that apply:

☐ Day 1: Tuesday, June 16, 2015 – Ecosystems & Biodiversity (grades 4 – 6)
☐ Day 2: Wednesday, June 17, 2015 – Climate Change (grades 6 – 9)
☐ Day 3: Thursday, June 18, 2015 – Water Quality (grades 6 – 8)

Graduate Credit / SCECHs:

GVSU Graduate: If a participant attends all three days, one graduate credit can be earned for an additional cost of $562 in-state and $752 out-of-state tuition.

SCECHs: Pending approval, SCECHs will be available for any combination of the days (one, two, or three days) at an additional cost of $5.00 per day.

Lodging:

Sleep Inn is located at 4869 Becker Dr, Allendale, MI  49401, 1.2 miles from the GVSU Allendale Campus. To make reservations, call 616.892.8000. Mention that you are visiting GVSU to get a 10% discount.

Registration Deadlines:  June 5, 2015

Cost: $20 per day

Register by FAX:  (616) 331-3412

Remit payment to:

MEECS / RMSC
C-1-12 Mackinac Hall
GVSU
1 Campus Dr
Allendale MI  49401

Confirmation: Confirmations will be sent to email.

Amount Due: ________________________________

Register by Email: ridgec@gvsu.edu

For more information, contact:

Karen Meyers, Director
Regional Math and Science Center
616.331.2515 or meyersk@gvsu.edu