



# VERMONT CENTER FOR ECOSTUDIES

Uniting People and Science for Conservation

## Community Science Teacher Education Week

July 19-22

20 Palmer Court White River Junction

***Preparations:** This week you will be in the field often. Please wear field appropriate clothing – a change of clothes is a good idea for every day. Ticks are present and clothing choice, preventative measures and thorough end-of-the-day inspections are necessary. Bring plenty of water and wear sunblock as needed.*

*Close toed shoes are a must for all field experiences. The syllabus that follows may change depending on weather or other circumstances.*

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### **Tuesday July 19**

8:30-9:30am- Welcome, Review Syllabus and Introductions

9:30-10:30am- Introduction to VCE and the Ecology of the Upper Valley

10:30-10:45am- Break

10:45-12:15pm- Intro to Vegetation Sampling Design- (plant richness quads/soil temp)

12:15-1:00pm- Lunch

1:00-2:00pm- Basic Principals of Statistics: Use of Excel and Graphing Calculators

2:00-3:15pm- Examining Ecotones- Invertebrate Community Diversity

3:15-4:15pm- Introduction to Bird Studies

### **Wednesday July 20**

8:00-9:30am- Bird Walk and Species Inventory (eBird + iNat)

9:30-10:00am-Collect Pitfall traps

10:00-11:30am- Invertebrate Identification/Analysis  
11:30-12:00pm- VCE Community Science Projects  
12:00-1:00pm- Lunch  
1:00-2:00pm- Collection of Population Data (Wildflowers)  
2:00-3:15pm- Analysis and Discussion of Population Data  
3:15- 4:15pm- Climate Change Bird Atlas  
4:15-5:00pm- Discussion of Community Science Project Design

### **Thursday July 21**

8:00-10:00am- Forestry Study/Carbon Sequestration  
10:00-12:00pm- Disturbance and Community Ecology- Species Area Curves  
12:00-1:00pm- Lunch  
1:00-2:30pm- Analysis of Forestry and Species Area Curve Data  
2:30-4:00pm- Using Regional Projects and Networks, Sustainable Community Sci Projects for Classrooms  
4:00-5:00pm- Intro to Globe Program and Resources, VCE Community Sci/Open Access Data

### **Optional Evening Activity- Herp walk/Moth ID**

### **Friday July 22**

9:00-10:30am- Google Earth Exercises  
10:30-12:00pm- Incorporating field Investigations and Community Science into the Classroom  
12:00-1:00pm- Lunch  
1:00-4:00pm- Present and Discuss Community Science Ideas  
4:00-4:30pm- Wrap up

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*\*All times are approximate*

*\*Sequence of Investigations may change due to weather or other factors*