

## Climate Change *with*



### Non-Credit Syllabus - Fall 2012

NSF Project SPRINTT [Student Polar Research with IPY National (and International) Teacher Training] brings cutting-edge polar science research with an Alaska Native perspective into K-12 classrooms, bridging the science and society divide while inspiring the next generation of polar explorers. Learn how to teach Life, Earth and Physical Science content in a polar context using high-quality, standards-based curricular materials. A user-friendly interface simplifies data where students perform their own authentic polar systems research projects.

#### **Course Objectives**

Participants will be able to:

- ✓ Access, interpret, and utilize polar data sets for the classroom.
- ✓ Teach standards-based Life, Earth, and Physical Science content in a polar context.
- ✓ Compare and contrast Indigenous and Western science knowledge on polar science and incorporate each into classroom instruction.
- ✓ Facilitate students' use of authentic polar data in conducting formal investigations and research projects.
- ✓ Adopt inquiry and technology-based teaching and learning strategies and successfully implement them in the classroom.

#### **Instructor:**

Georgia Hart  
[georgia.hart@gmail.com](mailto:georgia.hart@gmail.com)

#### **Live meeting dates:**

9/12/12, 9:00-10:00 PM ET  
9/19/12, 9:00-10:00 PM ET  
9/26/12, 9:00-10:00 PM ET  
10/3/12, 9:00-10:00 PM ET  
10/10/12, 9:00-10:00 PM ET



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## **Course Requirements**

**Coursework is due December 1, 2012.**

This course meets once per week. The live class meeting dates are indicated on the course calendar and on the schedule below. Between meetings, participants may be asked to work on assignments and respond to questions posed by the instructor in the Online Learning Space Discussion.

Students will be assessed using rubrics where applicable. Major course assignments are outlined in this syllabus, and more detailed information will be provided in class. *Changes may be made to the syllabus to accommodate your learning.*

Note: Please be sure to use reputable sources and to cite them appropriately using APA format; no credit will be given for plagiarized papers or segments.

**You must complete the mandatory assignments, and may choose optional assignments to earn the necessary points for credit.**

	<b>Assignment</b>	<b>Maximum Points Value</b>
<i>Mandatory 1</i>	<i>Preparation &amp; Participation in live class sessions, including assignments, etc.</i>	<i>Pass/Fail</i>
<i>Mandatory 2</i>	<i>Online Investigation and Sample Research Paper</i>	<i>Pass/Fail</i>
<i>Mandatory 3</i>	<i>Comprehensive Curriculum Plan</i>	<i>Pass/Fail</i>

### **Mandatory 2: Online Investigation and Research Paper**

Create a SPRINTT student account and choose any of the available investigations. Go through the entire investigation, including writing the research paper. Then create a guest username and password to view the paper, and post this information on the Discussion Board, along with a short (a few sentences) reflection on the process.

The final step is to comment on at least the research paper of at least one of your classmates on the Discussion Board.

### **Mandatory 3: Comprehensive Curriculum Plan**

Develop a detailed plan for your school year which includes implementation of SPRINTT lessons and resources. Identify the benchmarks/standards met by SPRINTT and the specific connections to curriculum you currently use. Describe places where SPRINTT will replace or enhance lessons or activities you already use with your students. Organize your curriculum plan in a clear format that will serve as a guide as you implement and/or prepare to implement.