### WEEK 1

**Introductions**

Film
“The hidden heart of the cosmos,” Brian Swimme

Discussion/Workshop
-Cosmology
-Educating the whole child for the 21st Century
-Astrophysics made relevant.

Film
“The Mystery of Chaco Canyon”

Discussion/Workshop
-Archeo-astronomy: why a multicultural view is more complex.

Lunch

**Afternoon Workshop**
-Cosmology & Mythology: Where science & stories come together.
-Traditional Stories
-Indigenous Poets & Songwriters: The Moon

**Lecture:**
The History of Science & the importance of Environmental Education—preparing our students for the future.

**Wrap-up**
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Reading Responses: Due each week
(See handouts for details.)

### WEEK 2

**Seminar Discussion**

**Workshop**
Special Projects

**Film:**
Nova-Origins, 1 & 4

**Special Potluck Lunch**

**Lab 1:** What is Science? An Inquiry Based Approach.
-Len Adams (Kootenai), Astro/Physics & Science Education; (Len worked on the Nova Program)

**Lab 2:** Principles of Science & Multi-Cultural Education,
-Nan McNutt, Science and Cultural Education at the University of Washington’s “Science and Tribes Program;” (With Len & Rebecca)

Due:
-Reading response papers
-Statement about your special project
-Bring food for potluck.

### WEEK 3

**Seminar Discussion**

**Lab 3:** Rock I.D., Geological Cycles.
-Pam Carter, Geologist/Science Educator

**Special Potluck Lunch**

**Field Trip:**
Tukwilla Butte
Identifying marine fossils.
Duwamish stories of geology

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Due:
-Reading response papers
-Wear comfortable walking shoes & clothes for afternoon field-trip.
-Bring food for potluck.

### WEEK 4

**Field Trip**
Meet at: The Pacific Science Center:
200 Second Ave. N.,
Seattle, WA 98109
(206) 443-2851
(Come 15 min. early so we can be in the workshop @ 9:30)

**Curriculum Review:**
9:30 a.m. Review Astro Adventures & Other Ed. Resources (w EALR’s)
-Dennis Schatz, Ph.D, Lead Astronomer/Science Educator, (Dennis worked on the Nova Program)

**Lab 4:** Star-Lab Planetarium
11:00-12:00. Starhunt, phases & cycles, hands on astronomy (private program).

Lunch
(On your own)

**Field Trip:**
1:00-3:00
The Healing Heart of the First People of this Land: The Seattle Symphony & Skagit Elder, Vi Hilbert, taq’šabu.
At Benaroya Hall
3rd Ave. & Union St.

**Editing Workshop**
Special Project--small group editing & peer review.

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Due:
-Reading response papers
-4 Copies of: Draft &/or example of Special Project for peer review.

### WEEK 5

**Seminar Discussion**

**Lab 5:** Soil Analysis

Lecture: Geology & Indigenous Cultures:
Soil & water-- geologic systems & geopolitical/ economic/ cultural processes. Case studies Cambodia & Hawaii.

-Molly Mier, Environmental Scientist/Geologist, working with rocks and soils with Indigenous communities in Asia an the Pacific.

**Special Potluck Lunct**

**Final Presentations:**
Special Projects.
(15 min. each)

**Final Wrap-up**
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Due:
-Reading responses
-Final Portfolio
-Presentation of Special Project.
-Bring food for potluck