

BCN1582 Notes for Exam 1

Book:

Chapter 1

Look up Anthropocene (5) (IE. Anthropocentric, human centered - Ecocentric or biocentric, nature/function centered [Bio is more small, organisms, living matter. Eco is both living and nonliving matter.]

EarthCore: 1 earthcentric leadership, 2 deep learning, 3 creativity, 4 interdependence (morals, emotional learning, and learning to live peacefully “Convivencia”), 5 earth-dependence

Look up Eco-literacy (9), both environmental sciences and the limits to growth

First paragraph, fourth line (11), “emphasis on the formation of democratic and participatory values”

Synthesizers, first line (13), those who can take learning from one realm and apply it to another.

Triple bottom line, [People, Planet and Profit] the three Ps. Cited to John Elkington

Chapter 2

Technology vs. Nature

Education for sustainability. Nature, “Naturalize”, forest Kindergartens

The STAR (Service to All Relation), North of Flagstaff, Arizona, edge of Navajo Reservation. Off the Grid and solar powered school.

The Children and Nature Network, an organization helping children to be more naturalized. “every student succeeds act”, provides funding for environmental education, field based learning, and prof development.

Initiative 67, on page 32. Outdoor school for all, from Oregon. Weeklong, overnight outdoor school.

Chapter 3

Page 36, eco-literacy! Read this! Fritjof Capra.

Farm-to-School programs, good solutions to beget other solutions: Increase health food access, teach kids where our meals come from, support local farms, and keep money through local economy.

California Thursdays, make a note! “bite size” strategy in 2013-14, part of Center’s Rethinking School Lunch Oakland program (of OUSD), one meal per month using fresh cali ingredients, then one meal per week of that after a few months.

Look at page 22, where they talk about Common market.....

Page number 41, Make a note! ... The Real World is the Optimal Learning Environment or Sustainable Living is Rooted in a Deep Knowledge of Place

Page 44, Fig 3 - 1. Green flag status (gfs) and registered eco-schools are increasing immensely, but only 15,000 out of 49,000 have GFS

Chapter 4

Look at the principles!

“banking model”, think knowledge like capital that can be deposited into empty students and later extracted like money.

“indigenous Knowledge Systems”, distinct languages, epistemologies, and ontologies

Three leading elements are learning spirals, embodied learning, and symbiotic and contextual learning
Over-emphasis on increasingly complex technology has led humans to deforest, destroy mountains and habitats, and lead species to extinction.

“Learn by doing” self-explanatory

“Gut feelings” react faster than the mind does, so it is important to keep in tune with the body’s wisdom and ways of knowing...

Learning lodge, group minding through words.

Guardians of the Water Youth Program, in 2013, from Cultural Conservancy.

Page 60, uses “little brother” as modern people and “elder brother” as mother earth. Is little bro gonna listen to me or no?

Lectures:

1.1.1

Question: How do we change course before we self-destruct?

Answer: Redesign our economy and change our attitudes to account for the critical role the environment plays in all aspects of our life

IMPACT: Climate change and ozone depletion

Deforestation and soil erosion leads to loss of fertile agricultural land, famine, eutrophication & acidification, etc.

In the future, expected to lose more species.

1.1.2

IPAT - Human impact I, Population P (people), Affluence A (materials/persons), Tech T (Impact/materials)

DOUBLING TIME (DT) – Part of rule 72

OECD countries: North America (US, Canada & Mexico), Europe, Asia (Japan, S Korea, Australia, NZ)

TOE is Total Oil Consumed (Also, Qatar Uses the most energy)

Sustain – “maintain,” “support,” or “endure”

Usage more in terms of “human sustainability on Earth.”

Brundtland Commission, UN (March 20, 1987)

**“Sustainable development is the development that meets,
the needs of the present**

Without compromising the ability of future generations to meet their own needs.”

1.2.1 and 1.2.3

Three Legs of Sustainability – is Sustainable development, design, and construction

Oxymoronic?

Precautionary Principle - Basic concept is if an unknown option is considered, take the most cautious approach. “Better safe than sorry”