**S. Roshni Tewari FINAL Integrating Sustainability Winter 2013**

*Personal teaching mission statement.*

I went students to learn personal responsibility for the environment starts increasing steps to use renewable energy and resources, low toxin products, low impact design and advocacy for critical environmental issues.

*A statement connecting sustainability to your discipline.*

My discipline for this class is environmental science. Environmental science does discuss sustainability issues but I wanted to teach a class that focuses on sustainability. I believe moving that the public needs to make value judgment which incorporates sustainability issues in the items they use. A lot of people changing their habits will result in real and significant improvement to the current environmental issues we face.

A teaching portfolio that outlines how your content will be sustainability-related, including:

1. Define sustainability and discuss the 3 pillars of sustainability and ways to measure our environmental impact.

2. Renewable energy - learn about the current technology and the advantages and disadvantages of each, which technology brings early returns and discuss energy conservation

3. Sustainable food production - organic, sustainable, salmon safe farming and urban gardening.

4. Toxins - reducing our bodies exposure

5**.** Homes - how to make them more sustainable byusing renewable energy, less water, recycled material and low toxin material

7. Transportation - hybrid cars and public transportation and other options that consume less energy or emit less green house gases e.g. zip cars

8. Investing and supporting companies that support sustainability

9. Sources of scientific information for sustainability - journals, website and books.

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| Assignment | Resources |
| Reduction of Carbon foot print | Carbon footprint – goal is to be carbon neutral – class project to reduce carbon emissions by 20 %<http://www.epa.gov/climatechange/ghgemissions/ind-calculator.html#c=theBasics&p=reduceOnTheRoad&m=calc_currentEmissions>    electricity generated at a facility that captures and stores its carbon dioxide emission  <http://www.energy.senate.gov/public/index.cfm/files/serve?File_id=8b0037eb-b801-4fc6-9918-f2c0d5da27a0>  Renewable energy – main forms solar, wind, biogas, geothermal, biomass, low impact hydroelectricity and wave and tidal power  http://www.eia.gov/cneaf/solar.renewables/page/prelim\_trends/rea\_prereport.html  <http://epa.gov/statelocalclimate/local/topics/renewable.html>  how many KWh do you use a day and visualize this and exercise ball of CO2 going into the atmosphere.  <http://www.myledlightingguide.com/Article.aspx?ArticleID=8>  <http://www.sustain.ucla.edu/news/article.asp?parentid=9329>  <http://www.carbonfund.org/site/pages/carbon_calculators/category/Assumptions> |
| Detox me | Record everything you put in or on your body for 3 days- input data into a 2 column table   1. list all the different types of food you eat, organize the food into processed and unprocessed (whole food**)(5).** Record the ingredients of the processed food **(10)**. 2. Make a list of all the cosmetics you use, note a cosmetic is defined as anything you use on your body makeup, lotions, hair products, shaving cream, perfume etc**.** Make a list of all the ingredients in the cosmetics you use, some of the information is on the packaging and some of the information is hard to find and will require some online research. **(10).** 3. Research three synthetic ingredients in your food and three synthetic ingredients in your cosmetics. Write a brief description on each synthetic ingredient and include possible side effects for humans or the environment **(10).** 4. Also write a one page paper (single spaced) on what you think about all the processed or synthetic products that you consume or use. ( **10**)   Note if you look up ingredients form the internet you MUST site the source of the information. Some information my be hard to find e.g. perfume ingredients and in these cased you can use general ingredient data. |