

Soils 150 - Science, Society and Sustainable Food Systems - Fall 2003

Note that this schedule is subject to change. Information on additional readings and homework assignments will be given in class (a few of them are on here, but not all)

Lab sessions – Meet in Johnson 204, unless told otherwise.

Week	Wed	Friday	Lab/Discussion – Wed Afternoon (2 hours)
1 8/27, 29	I. THE BIG PICTURE Introduction to agriculture and food systems <i>HW 1: Reflect on one's own relationship to agriculture & food. (due 8/29)</i>	Overview of world and PNW agricultural systems <u>Reading:</u> Solbrig and Solbrig, Ch. 11 (1995)	<u>EXPLORE:</u> Field trip to Owen Science Library - Finding science-based info. Meet in Lobby of Owen Science Library at start of lab (1:10 or 3:10). If you are late, find us in room 319D.
2 9/3, 5	Regulation, Worldviews, and Right to Harvest: A case study with Huckleberries (<i>Guest: Matt Carroll (NATRS)</i>) <i>HW 2: Reflection on you knowledge & use of science (Due 9/10)</i>	Overview of world and PNW agricultural systems, including approaches to assessing systems (cont.) <u>Reading:</u> Fast Food Nation-Intro <i>HW 3: Investigation – Food in our Grocery Stores(due 9/12)</i>	<u>COMMUNICATE:</u> Reading, interpreting and preparing science-based information. Meet in Johnson 404
3 9/10, 12	Overview of world and PNW agricultural systems, and the role of science. <u>Reading:</u> Lipps essay (http://www.ucmp.berkeley.edu/fosrec/Lipps.html)	Our Retail Supply - Grocery Store Discussion <i>(HW 3 due)</i>	<u>EXPERIMENT:</u> Start greenhouse experiment (plant response to fertilizer treatment)
4 9/17, 19	II. FOOD PRODUCTION & THE ENVIRONMENT Agricultural Production for Sustainability <u>Reading:</u> Horne, Ch.2	What, When and Why of Fertilizers - Plant needs and uptake. <i>HW 4 – Soil Nutrients (due 10/3)</i>	<u>EXPLORE:</u> Field trip to WSU Composting facility. Meet at Loading Dock
5 9/24, 26	Case Studies Analysis I (write-up due)	QUIZ 1. (On Unit I) Extra credit - Attend at least one keynote session at the IFSE conference and write a reflection.	<u>LISTEN/DISCUSS:</u> <i>Evaluating Sustainability</i> (video-JPF leading)
6 10/1, 3	Pests and Pest Management What, when and why of pesticides - pros and cons <i>(Guest: Rob Gallagher, WSU-Crop & Soil Sciences)</i> <u>Reading:</u>	Sustainability issues in soil, nutrient, and pest management	<u>EXPERIMENT:</u> Greenhouse - Plant leaf area measurements.
7 10/8, 10	Plant breeding, genes and GMOs <u>Reading:</u> (<i>Guest: Steve Jones, WSU-Wheat Breeder</i>)	Water quality issues <i>(Guest: Craig Cogger, WSU-Puyallup)</i>	<u>EXPLORE:</u> Plant Breeding Laboratory
8 10/15, 17	Food Quality Assessment <i>(Guest: Stephanie Clark – WSU Food Science and Human Nutr.)</i>	Sustainable Animal Production	<u>EXPERIMENT:</u> - Report greenhouse findings to date (brief presentation) - Planning experiments – develop hypotheses and experimental design for next week's lab

9 10/22,24	Sustainable Animal Prod. II	Biodiversity	<u>EXPERIMENT</u> : Setting up and conducting experiments – food quality
10 10/29,31	QUIZ 2 (on Unit II take home, no class)	III. SOCIOECONOMIC FACTORS Small Farms (<i>Guest: Dave Muehlheisen - WSU Small Farms Program</i>)	<u>COMMUNICATE</u> : Creating scientific presentations (Meet in Johnson 404, bring a diskette or laptop).
11 11/5, 7	My Father's Garden (Video documentary about two dedicated, innovative farmers – 58 minutes!)	Case Study II (Discussion)	<u>EXPLORE</u> : Wheat Quality Lab- (Upstairs from Ferdinands) <i>Brady Carter – WSU Crop Scientist</i>
12 11/12, 14	Economic forces in our Food Systems (<i>Guest: Hayley Chouinard. WSU- Agric. and Resource Economics</i>)	Marketing sustainably produced agricultural products. (<i>Guest: Jill McCluskey, WSU – Agric. and Resource Economics</i>)	<u>EXPLORE</u> : Institutional Food Systems A. WSU Children's Center B. Rotunda dining Hall Meet at Children's Center Lobby
13 11/19, 21	Consumer Food Choices: Culture and Values (<i>Guest: Val Hillers, Food Sci. & Human Nutrition.</i>)	Poverty, Hunger and Food Security	<u>EXPLORE</u> : Another WSU Food System Enterprise – Knotts Dairy & Ferdinands
11/26, 28	Thanksgiving Break		
14 12/3, 5	Food access and availability	Food System workers - Farm workers in the US (ER Murrow documentary)	<u>COMMUNICATE</u> : Present posters of greenhouse experiments.
15 12/10, 12	Community food systems – what does that mean and why are we interested? (<i>Guest: Colette DePhelps, Rural Roots</i>)	Wrap-up and review	<u>COMMUNICATE</u> : Oral reports on interviews with agricultural professionals
16	Quiz 3 – Oral – Schedule times during final exam period - (Before Thursday 12/18, 3:00 pm)		