

Lecture Schedule Spring 2016 (Required common readings **in bold**, starred are recommended by lecturer)

Wk	Date	Lecture Topics, Title, Lecturer	Readings/Assignments
1	1/11-12	No lecture, first week of class (classes begin Wednesday)	Possible time to assign “Value-Sensitive Design” by Ronald Sandler
2	1/18-19	“Science and Engineering Ethics,” Joe Horan Professional Ethics, NSPE code of ethics, responsibilities of engineers	“The Nazi Engineers” by Katz “Professionalism” by Boisjoly “Engineers as Moral Heroes” by Alpern
3	1/25-26	“Introduction to Ethics Part 1,” Sandy Woodson The Big 3 Ethical Theories: Utilitarianism, Deontology, Virtue Ethics	“What is Morality?” by Rachels “Introduction to Ethical Reasoning” by Donaldson and Werhane NHV book Chapter 2
4	2/1-2	“Introduction to Ethics Part 2,” Sandy Woodson More ethics: Rawls’ Theory of Justice, Social Contract Theory, Role of government in ethics, Nozick	
5	2/8-9	“Environmental Ethics,” Sandy Woodson Value Assumptions, Anthropocentrism, Precautionary Principle, Risk	“The Land Ethic” by Aldo Leopold *“The Anti-Industrial Revolution” by Rand
6	2/15-16	No lecture, President’s Day holiday 2/15	
7	2/22-23	“Wilderness and the Tragedy of the Commons,” Joe Horan Environmental History, Biological Old Regime, Anthropocene, Great Divorce, Wilderness, Preservation/Conservation	“Tragedy of the Commons” by Garrett Hardin “The Trouble with Wilderness” by Cronon (several others listed in Bb folder)
8	2/29-3/1	“Paradox of Development,” Joe Horan Nanotechnology, Singularity, More money more problems	“Promise and Peril” by Kurzweil Possible time to assign “The Case Against Perfection” by Michael Sandel
9	3/7-8	“Digital Technology and Dialogue,” Cortney Holles DT & the Brain, DT& E-waste, DT& energy and water, confirmation bias, filter bubble, negotiation, dialogue	“Is Google Making Us Stoopid” by Carr “Get Smarter” by Cascio “The Filter Bubble” by Pariser
	3/14-15	No lecture, Spring break 3/14 through 3/18	
10	3/21-22	“Water in the West,” Sarah Hitt Cultural values about water=water engineering/water law, history of water use in the west, competing water demands (humans, agriculture, energy)	*“Encounters with the Archdruid” by McPhee; “Private Irrigation in the Grand Valley” by Raley; “Building Dams and Damning People” by Sánchez
11	3/28-29	Film: <i>Oil and Water</i>	“Righteous Oil” by Watts Water for Energy chapter of WEO2012
12	4/4-5	“Mining for Morals,” Jessica Smith Corporate Social Responsibility, Moral Landscapes, Case Studies	*“Costs of Conflict” by Davis and Franks “Culture of Plunder” by Jensen
13	4/11-12	“Rocky Flats,” Ken Osgood Bystander effect, competing demands on engineers, effects on human health and environment	“In the Unlikely Event of a Water Landing” by Lauren Slater Excerpts from: “Full Body Burden” by Iversen OR “Making a Real Killing” by Ackland
15	4/18-19	“Nuclear Technology: Dual Use & Ethics,” Cortney Holles Dual Use, Ethics of Pure vs. Applied Science, Social and moral impacts of nuclear tech., responsibility for tech.	“Architecture of Evil” by Forsgren “Leaving the Bomb Project” by Rotblat “Science and Morality” by Teller “Dual Use and the Responsibility of Scientists” by Ehni
16	4/25-26	No lecture	
	5/2-3	No lecture, last day of class 5/5	GRADES DUE 5/16