

INTD 3990: Quick Reference Reading List, Fall 2016

Lectures	Reading Assignment/In-class Discussion or Activity
Introductory Explorations	
(1) M 8/16	Introductory exercises: http://www.inc.com/tess-townsend/3-moonshot-ideas-diamandis.html , vs. http://energybulletin.dev.postcarbon.org/52210 ; Neutrality of Technology
(2) J 8/18	Review of Syllabus Contract; Intro to Critical Thinking
Introduction to Appropriate Technology	
(3) M 8/23	Papadopoulos, Frey, Castro, et al. "Sponsoring Research in Appropriate Technology", pp. 4-8 Practical Action, "What is Appropriate Technology?", pp. 1-6
Introductory Concepts of Energy and Power	
(4) J 8/25 (5) M 8/30	Schramski, Gattie, and Brown. "Human Domination of the Biosphere: Rapid Discharge of the Earth-Space Battery Foretells the Future of Humankind", pp 9511-9517. DeDecker, "Slow Electricity: The Return of DC Power?", pp. 1-11
Appropriate Technology and Humanitarian Engineering as Theoretical Frameworks	
(6) J 9/1 (7) M 9/6	Willoughby. "An Integrated Framework", <i>Technology Choice: A Critique to the Appropriate Technology Movement</i> , pp. 265-308 Mitcham and Muñoz, "3. Humanitarian Engineering", <i>Humanitarian Engineering</i> , pp. 27-35
Review of Possible Strengths and Weaknesses of the Appropriate Technology General Framework	
(8) J 9/8 (9) M 9/13	Willoughby, "A Review of Possible Criticisms", <i>Technology Choice: A Critique to the Appropriate Technology Movement</i> , pp. 309-330
Project Proposal Due Thursday September 8	
Critique of the Current Global Development Narrative	
(10) J 9/15 (11) M 9/20	Schumacher, "The Role of Economics" and "Buddhist Economics", <i>Small is Beautiful: Economics as if People Mattered</i> , pp. 40-62 Practical Action, "Conventional Wisdom – The current development narrative and why it doesn't work", <i>Wellbeing, Technology Justice and Sustainable Development: Fighting Poverty as if People Really Mattered</i> , pp. 2-43
First Essay – Individual Due Tuesday September 27	
Technology and Social Justice	
(12) M 9/27 (13) J 9/29	Leydens, Lucena, and Nieuwsma, "What is Design for Social Justice?", pp. 1-30
First Philosophical Theoretical Framework for Analyzing and Evaluating the Technological Culture of the Times.	
(14) M 10/4 (15) J 10/6	Tijmes, "Albert Borgmann: Technology and the Character of Everyday Life", <i>American Philosophy of Technology</i> , pp. 11-36
Developing Writing and Research Skills	
(16) M 10/11 (17) J 10/13	Critique and Revision of Essays Interactive Research Period for Projects
Project Actions Summary Due Thursday October 13	
Introductory Concepts of Thermodynamics	
(18) M 10/18	Riley, <i>Engineering Thermodynamics and 21st Century Energy Problems: A Textbook Companion for Student Engagement</i> , excerpts TBA
Bringing Wellbeing into Development Practice	
(19) M 10/25 (20) J 10/27	Castro Sitiriche and Jiménez, "Responsible Wellbeing and Energy Threshold", pp. 64-126
Second Philosophical Theoretical Framework for Analyzing and Evaluating the Technological Culture of the Times. An Approach from the Periphery.	
(21) M 11/1 (22) J 11/3	Huyke-Souffront, "La sustitución de las cercanías por lo lejano", <i>Tras otro progreso: Filosofía de la tecnología desde la periferia</i> , pp. 107-124
Second Essay – Individual Due Thursday November 15	
Introductory Concepts of Structures and Materials	
(23) J 11/10 (24) M 11/15	Readings TBA Visit to TARS and Civil Engineering Laboratory
Ethical Theory: Questions and Issues on Climate Change	
(25) J 11/17 (26) M 11/22	Dale Jamieson, "The Frontiers of Ethics", in <i>Reason in a Dark Time: Why the Struggle Against Climate Change Failed and What It Means for Our Future</i> , pp. 144-177
Technology Innovation and Human Progress	
(27) M 11/29 (28) J 12/1	Readings TBA
(29) M 12/6 (30) J 12/8	Readings TBA
Final Project Due Monday December 12	