

SYSTEMS APPROACH: Course Schedule

Week	Tuesday	Thursday
1 (9/30) (10/2)	Student "inventory". Course overview. Definition of SYSTEMS and related concepts.	Lendaris, <i>IEEE, Vol. SMC-16, No.4</i> , "On Systemness and the Problem Solver: Tutorial Comments." Hall, <i>IEEE, Vol. SSC-5, No. 2</i> , "Three-Dimensional Morphology of Systems Engineering." [pdf files on class Web site]
2 (10/7) (10/9)	Proactively changing our "mind set", a la Senge Senge, <i>The Fifth Discipline</i> : Ch 1-5. ALSO, read Rabow, et al, <i>Learning Through Discussion</i>	Proactively changing our "mind set", a la Linstone Linstone, <i>Decision Making for Technology Executives</i> , Ch. 1-3.
3 (10/14) (10/16)	Meta-level look at how we acquire knowledge, based on Churchman's <i>Inquiring Systems</i>. Mitroff & Turoff: "Technology forecasting...." Turoff & Mitroff: "A case study...." [pdf files on class Web site] Systems Methodology and the Scientific Method Hall, <i>Metasystems Methodology</i> : Chapter 4	Linstone, (MP = Multiple Perspectives) Ch 4: Public Sector Examples of MP Ch 5: Private Sector Examples of MP
4 (10/21) (10/23)	Preview of systemic patterns. Senge, Ch 6: Nature's Templates App. 2: Systems Archetypes	Senge, Ch 7: Self-Limiting or Self-Sustaining Growth. Ch 8: Personal mastery
5 (10/28) (10/30)	Create personal example of MP ("thought expt.") Linstone, Ch 9: Guidelines for Users of MP App A.5: Guidelines for Implementation of MP	Senge, Ch 9: Mental models Ch 10: Shared Vision
6 (11/4) (11/6)	Hall, <i>Metasystems Methodology</i> Ch 1: Overview of systems methodology	Hall, <i>Metasystems Methodology</i> Ch 2: Basic Percepts, Concept, & Precepts.
7 (11/11) (11/13)	Senge, Ch 11: Team Learning Warfield, <i>Societal Systems</i> [pdf file on Web site] Ch 3: The Organized Conduct of Inquiry	Lendaris [pdf file on class Web site] "On Human Aspects of Structural Modeling" Hall, Ch 5: Problem Finding & Problem Definition
8 (11/18) (11/20)	Hall, Ch 6: Building the Normative Scenario Senge: Microworlds (Ch 17 from first edition - on Web site)	Hall, Ch 8: Basis of Systems Methods in Casuistry Ch 10: Systems Synthesis, Analysis & Optim.
9 (11/25) (11/27)	Delp, <i>Systems Tools for Project Planning</i> Ch III, IV, V, VI, IX (selections) [at SmartCopy] Structural Modeling: ISM, etc. [pdf files on class Web site]	THANKSGIVING HOLIDAY
10 (12/2) (12/4)	Senge - Reflections from Practice: Ch 12 - 15 (pp. 255-340)	Senge wrap-up: Ch 16-18 (pp. 341-382) ISM Session