

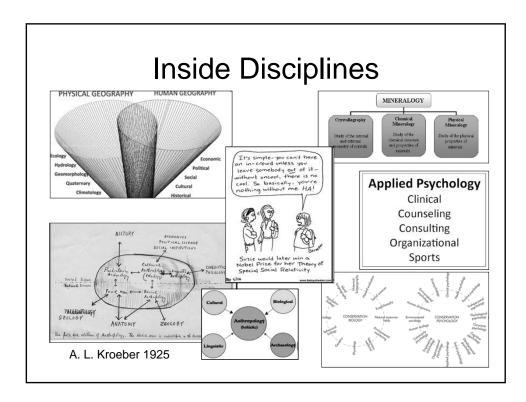
Outline

Background

- How did disciplines form?
- History & future of the Academy
- Social Sciences, Humanities, the Professions
- Multidisciplinary, Interdisciplinary, Transdisciplinary
- The Importance of Interstitial Areas

Thought Experiments

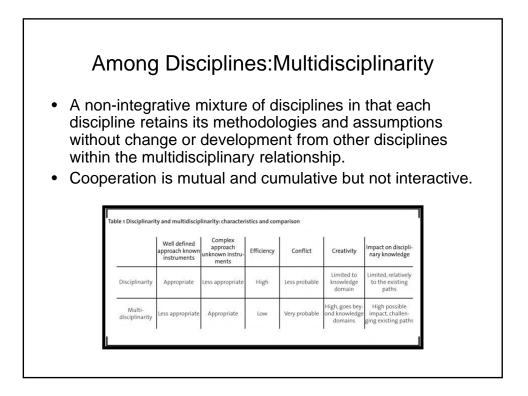
- Recognizing Diversity
- Forming and Leading Teams
- Your Career

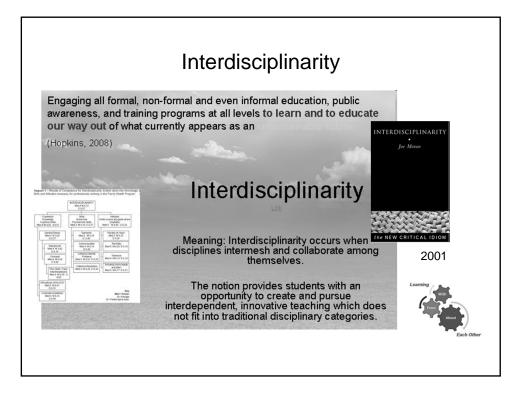


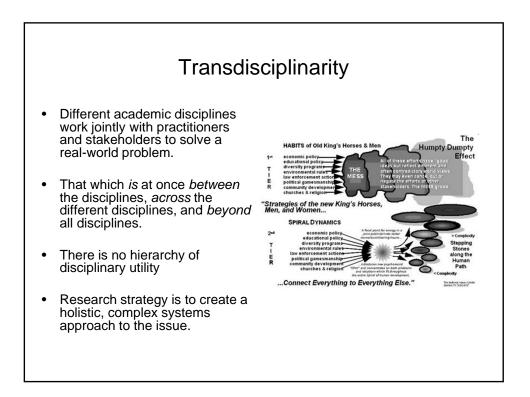
Social Science Discipline:	Central Focus:	Studies Include:	Structure:	Primary Data Collection Strategy:	Remarks:
Anthropology	culture at all times and places	holistic account & understanding of the human species in all its aspects	social/cultural, phys/biol, language, archaeology many hybrids	qualitative, some quantitative, comparative observational & fieldwork	"most scientific of the humanities, most humanistic of the sciences" broad integration
Economics	fiscal and material management	financial aspects of human behavior	macroeconomics (system wide) microeconomics (household, firm)	strongly quantitative	rational behavior, market equilibrium etc but heterodox schools (green, Marx, etc)
Geography	Earth processes and changes	reciprocal relationship b/t human agency and biophysical world	human & physical geography, GIS many hybrids	HG qual + quant, PG quantitative fieldwork	straddles physical and soc sciences; but deep split retards integration
Linguistics	communication and its rules	meaning, x-cult comparison, lang acquisition, cognition	language structure language meaning	quantitative, qualitative, some fieldwork	considerable integration with social sciences
Political Science	political behavior	description, analysis of political systems and behavior	many hybrids	quantitative, some qualitative	considerable integration with social sciences
Psychology	behavior and mental processes	brain & social behavior, modify humans, animals	social, behavioral, clinical psych	quantitative observational	straddles biological & social sciences but little soc sci integration
Sociology	modern society: industrialization urbanization	social rules & processes, social action, class, race	many hybrids	quantitative (surveys), some qualitative	considerable integration with social sciences

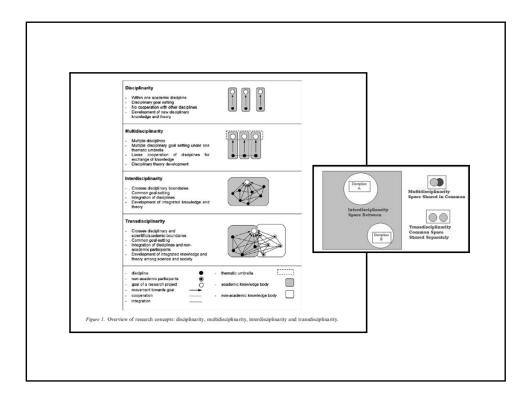
Humanities Discipline:	Central Focus:	Studies Include:	Structure:	Primary Data Collection Strategy:	Remarks:
History	investigation of the written past at many scales	individual lives, politics, societies, institutions, & civilizations	usually divided by region and period into specific sub- categories	hermeneutic and comparative analysis of texts	narrative examination & analysis of events
Literature	exploration of ideas through writing	many genres: slave, gender, institutional, environmental, ethnic	particular languages, comparative languages	hermeneutic and comparative analysis of texts	close relationship with history & the social sciences
Languages	mastering syntax, grammar, and nuances of a particular language	dialects, argot, patois, slang, etc	departments that specialize is a particular language	practice, observation	a critical skill for fieldwork in any social science
Philosophy	existence, values, knowledge, reason, mind, & language	philosophers, philosophic traditions, particular questions	classical, rhetoric, epistemology, ethics	hermeneutic and comparative analysis of texts	undergirds the history of all disciplines
Classics	Classical period archaeology, Greek and Latin authors	rural, urban, and political life in Classical times	Classical literature Classical archaeology	hermeneutic and comparative analysis of texts	despite effort, remains a closed discipline
Religion	beliefs about the origin and purpose of the universe	evolution of religious thought & practices, contemporary issues	departments have ancient/classical, & specific studies by religious tradition	hermeneutic and comparative analysis of texts	many connections to history, archaeology, anthropology
Visual and Performing Arts	the embodied expression of emotion	music, dance, theatre, plastic arts	departments often housed with art history	practice, observation	draws inspiration from everywhere

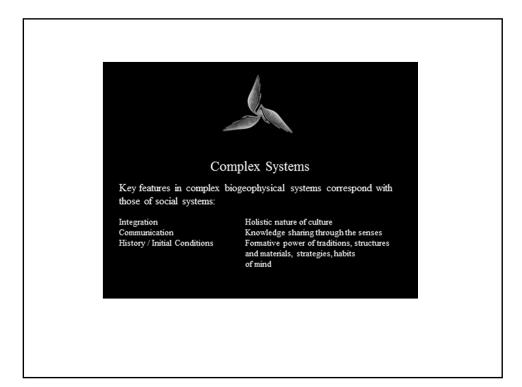
A Selection of Professional Schools	Central Focus:	Structure:	Primary Data Collection Strategy:	Remarks:
Law	training lawyers	criminal, contract, tort, international, constitutional, property, etc	case study; learning analytic, investigative, & procedural skills	strong connection to content
Medicine	training health care professionals	internal, general, specialist, etc	learning systems and processes, analytic and procedural skills	strong connection to content
Public Health	training professionals to manage public health issues	research, administrative, etc	learning analytic and procedural skills	strong connection to content
Engineering	training engineers	civil, aerospace, electrical, mechanical, etc	learning systems and processes, analytic and procedural skills	strong connection to content
Education	training educators	primary, secondary, higher, adult	learning analytic and procedural skills	weak connection to content
Environment	training environmental managers	forestry, marine, Earth, ocean, conservation, etc	learning systems and processes, fieldwork	strong connection to content
Journalism	training journalists	news, values, independence, style, ethics, etc	learning analytic and investigative skills	strong connection to content
Business	training entrepreneurs	finance, marketing, administration, economics, etc	learning analytic and procedural skills	strong connection to content



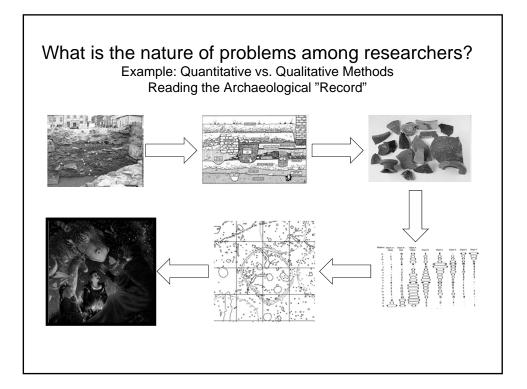


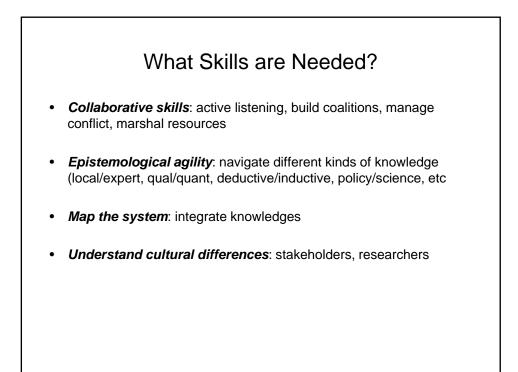


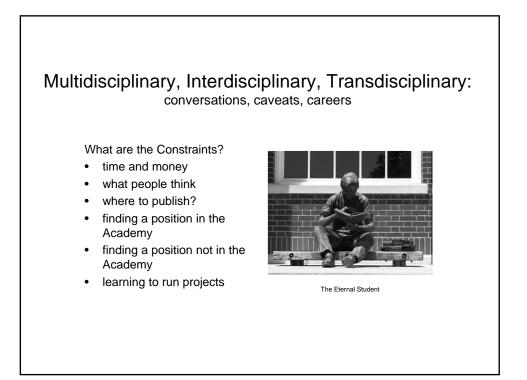




Hierarchy of Ontological Complexity in Social System	yed by Decre	Nodeling Strategies for Studying Chaotic Social Systems: ed by Decreasing Determinist Presuppositions (horzontal axis) and by Levels of System Specificity (vertical axis)				
Process II: Societal evolution via historical modes of production						
Process I: Class struggle. Conflict over cultural hegemony						
12. <u>Values II</u> : Hegemonic culture & subcultural bases of resistance						
11. <u>Values I</u> : Struggle of hegemonic vs. subterranean world views						
10. Norms II: Allocation of relative power among social institutions					Contract Sectors of the Contract Sector Sect	
9. <u>Norms I</u> : Personal conformity to general hegemonic standards					and a standard	
8. <u>Roles II</u> : Intraorganization allocation of roles & resources						N. C. C.
 <u>Roles I</u>: Distribution of material rewards & esteem 						
 <u>Facilities II</u>: Technical division of labor in productive sphere 						
5. <u>Facilities I</u> : Sociotechnical infrastructure of organization						
 Ecological organization of institutional time & space 						
 Ecological organization of local biotic community 						
 Biological evolution as a series of assisted bifurcations 						
 Determinant regularities of the physical universe 						
	Predictive Modeling	Statistical Modeling	Iconological Modeling	Structural Modeling	Ideal Type Modeling	Historical Narratives
	Levels of Modeling Abstraction					







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