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| The Logic of Design in Social Science Research: From Theory to Practice |  | Date June 7-10, 2017  Time/lecture 120 min (+Q&A)  Instructor Dr. Minghui Gao E-Mail mgao@astate.edu Phone 1-870-680-8096 |
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| OverviewThese four lectures introduce researchers of social science to the logic of design in social science research. Participants will be exposed to fundamental concepts, evaluative criteria, and practical frameworks underlying social science research.Lecture 01 Paradigms in Social Science Research  * Social science research * Fundamental concepts in philosophy of science: ontology, epistemology, and methodology * Paradigms in social science research: positivism, interpretivism, and realism * Flow of design in social science research: an interactive model of five-elements * Don’t upset the apple cart: pitfalls to avoid  Lecture 02 The Logic of Design in Qualitative Inquiry  * Historical moments of qualitative research * Epistemological stances in qualitative inquiry: interpretivism, hermeneutics, and social constructionism * Basis for the use of a qualitative methodology * Five qualitative approaches to inquiry * Designing a qualitative study: features, process, ethics, and structures |

# Lecture 03 The Logic of Design in Quantitative Research

* Epistemological stances in quantitative research
* Descriptive, relational, quasi-experimental, and experimental research designs
* Generating researchable questions or hypotheses
* Matching research designs to research questions/hypotheses
* Matching statistical models to research design
* An example: two-way factorial design

# Lecture 04 The Logic of Design in Mixed-Methods Research

* A brief history
* Why mixed methods?
* Philosophical stances: post-positivism, constructivism, critical theory, and pragmatism
* Type of mixed methods research designs: sequential and concurrent
* Methodological rationales of mixed methods design: big fives
* A practical template

*Summary: Where should you go from here?*