Advanced Research Methods in Sustainable Design
ARCH 678
CRN 27284

Instructor:
G.Z. Brown
103 Pacific
346-5647

Meeting Place & Time:
TBA
Tuesdays, 4:00 - 5:50 pm and 6:30 - 8:20 pm

Meeting Format:
Lecture/Discussion

Credit Hours and Grading:
4 Credits/Optional

Prerequisites:
M.Arch. Option I or PhD standing

Transforming the Market by G.Z. Brown (with homage to Scott Adams’ Dilbert)

How much research will it take to fix problems that arise in accelerating the adoption of new energy efficient products?

It’s impossible to predict the amount of research required to fix unknown problems.

Think like a manager, not like a researcher

In that case, we will fix the problems before we know what they are and then do the research
Course Objectives:
Perhaps more than any other period in history, students and professionals in the design fields today are asked to respond to challenging social and environmental issues with solutions that are integrative, transdisciplinary, and evidence-based.

This course is the second of a two-term series in research methods and design, focusing in-depth on different strategies for approaching research problems and developing a taxonomy of the critical elements in any research plan.

The first two weeks will emphasize the importance of the idea, using ESBL work as examples. During the rest of the term guest speakers will present their projects and experiences. Each speaker will describe their current research interests with an emphasis on methods, and how they have chosen to pursue those interests within the framework of their respective disciplines. Additionally, the guest speakers will discuss their doctoral dissertation and the evolution of the research. Research methodology from both the humanities and the sciences will be discussed.

Guest speakers (* denotes confirmed speakers):
- *Brendan Bohannan, Associate Professor of Biology, UO
- *Kevin Nute, Professor of Architecture, UO
- *Albert Narath, Assistant Professor of Art History, UO
- *David Hulse, Knight Professor of Landscape Architecture, UO
- *Rob Ribe, Professor of Landscape Architecture, UO
- Loren Lutzenhiser, Professor of Urban Studies and Planning, PSU
- Kingston Heath, Professor of Historic Preservation, UO
- Michael Russo, Lundquist Professor of Sustainable Management, UO

Study Vehicle:
This course is intended for M.Arch. Option I and Ph.D. students in their first year. “Advanced Research in Sustainable Design” will help students refine and evolve their thesis or dissertation topics, and present a broad array of research tools and methodologies that can be used to engage transdisciplinary problems.

The course will meet once per week on Tuesdays; it will be broken down into two 2-hour sessions with a 30-minute break between. In general, the discussion during the first session will be led by a guest speaker, while the second session will concentrate on analyzing and evaluating the material presented in the first session.

Grading in the class will be based on participation in discussions, as well as exercises completed throughout the term.

Required Texts: