

Special Topics: Human Factors in Design

ST-HU FAC DESIGN

PSY 710 X Sec. 004, Spring Term 2008

Led by: Mike S. WOGALTER
Tuesdays 1:30 - 4:15 pm
Room: POE 724
3 Credit Hours

Instructor Information

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Course Objectives

Human Factors and Ergonomics (HFE) is intimately tied to design. A fundamental goal of HFE is to produce a good fit of products, equipment, environments, and tasks with people. Design should consider people's abilities and limitations in the development and evolution of things. This course will explore ways that HFE can contribute to design particularly in development and testing. A specific emphasis will be on information design, particularly on ways to convey information quickly, accurately, and meaningfully— including graphic displays of quantitative information, symbols to convey concepts, and emergent features. Secondary emphases will include consumer-product and environmental design. This is a seminar course in which class time will be spent discussing the readings assigned for that week. Students will lead certain classes. Students will bring in questions and comments concerning the readings to prompt class discussion. A manuscript on new data collected during the semester related to design completes the course.

Readings

There are 4 books we will be using:

Few, S. (2004). *Show me the numbers: Designing tables and graphs to enlighten*. Oakland, CA: Analytics Press. ISBN: 0970601999

Lidwell, W., Holden, K., & Butler, J. (2005). *Universal principles in design: A cross-disciplinary reference*. Gloucester, MA: Rockport Publishing. ISBN: 1592530079

Petroski, H. (1996). *Invention by design: How engineers get from thought to thing*. Harvard University Press. ISBN: 0674-46368-4

Weber, R. J. (1992). *Forks, phonographs, and hot air balloons: A field guide to inventive thinking*. Oxford University Press. ISBN: 019506402X

