A. Course Description

Credits: 4

Prerequisites: PSYC 100 General Psychology or equivalent with instructor's consent.

Lab Hours/ Weeks: Corequisites: None

Lecture Hours/ Week:

MnTC Goals: Goal LS - Upper Division Liberal Studies, Goal 05 - Hist/Soc/Behav Sci

Human factors psychology (ergonomics) is the study of human capacities and limitations affecting people's interaction with machines. Topics include perception, cognition, memory, psychomotor learning, display and control design, vehicular and roadway design, the human-computer interface, airplane crashes, and product liability. The course includes psychology laboratory experiments and research reports, exercises in human factors design, and a field trip in which students fly a flight simulator. Experimental methodology underlies the content of this course.

B. Course Effective Dates: 08/24/2002 - 12/15/2017 12/16/2017 - Present

C. Outline of Major Content Areas:

See Course Description for major content areas.

D. Learning Outcomes (General)

1. To provide an understanding of how laboratory research is conducted in psychology as it relates to human and machine interactions.
2. To provide an understanding of principles of perceptual, psychomotor, learning, and cognitive psychology as they relate to human factors analyses.
3. To provide an understanding of the human factors implications of machine and system design.
4. To provide experience in applying human factors principles to design problems and to develop new approaches to solving human and machine interactions.

E. Learning Outcomes (MN Transfer Curriculum)

Goal LS - Upper Division Liberal Studies

None

Goal 05 - Hist/Soc/Behav Sci

1. Employ the methods and data that historians and social and behavioral scientists use to investigate the human condition.
2. Use and critique alternative explanatory systems or theories.
3. Develop and communicate alternative explanations or solutions for contemporary social issues.

G. Special Information

None