

Human Factors Psychology examines human perception, cognition, and behavior as it relates to work-related activities. The emphasis is on the evaluation and analysis of human performance within the work environment.

The MS Human Factors Program is designed to prepare students to apply knowledge of psychology to the design of jobs, information systems, consumer products, workplaces and equipment in order to improve user performance, safety and comfort.



Human Factors Psychologists work in most major industries: Aerospace, Computer, Telecommunications, Automotive, Software, Web design, Medical, Training, Government and Defense.

The MS Degree in Human Factors at Cal State University Long Beach trains students in the application of human factors through courses in human factors, computer applications, and interface design. Special topics seminars, in areas such as large-scale simulation and knowledge engineering, complement the core program of study. Finally, students complete a thesis in their chosen area of human factors.

The MS Human Factors program is designed as a terminal degree, but it also provides excellent preparation for students interested in pursuing a Ph.D.

About the Department

The Department of Psychology enrolls over 650 undergraduate majors and approximately 100 graduate students. MA programs are offered in Research, Human Factors, and Industrial/Organizational Psychology. The 28 full-time faculty and 30 part-time faculty maintain on-going research programs which actively involve both graduate and undergraduate students.

Facilities

The department is located in the Psychology Building, a four-story structure which houses faculty and graduate student offices, a newly constructed computer lab, and laboratories for faculty and student research in the major areas of Psychology. Human factors experience can be obtained in two Centers and various laboratories in the Psychology Building:

- **The Advanced Air Vehicle/Air Traffic Management Simulation & Research Center**, a state-of-the-art facility for research and simulations of advanced air technologies and air traffic management issues.
- **The Center for Usability in Design and Assessment**, a usability testing laboratory that provides real-world hands-on experience in usability testing and interface design.



- **Perceptual, cognitive, and neuroscience research laboratories** provide ample space and equipment for research in a variety of areas including auditory and visual perception, cognitive psychology, aviation psychology and human-computer

Prerequisites

- An undergraduate major in either Psychology or another field with 24 units of upper division psychology.
- A minimum grade point average of approximately 3.0 for the last 60 semester units (90 quarter units) and for all Psychology units.
- Psychology courses in intermediate statistics, sensation and perception, cognitive psychology and physiological psychology.

Curriculum

Students are required to complete the following courses in psychology, mechanical and aerospace engineering, and computer science engineering

- Statistical Design and Analysis of Experiments
- Computer Applications in Psychology
- Human Factors
- Research Methods in Cognition and Learning
- Seminar in Cognition
- Seminar in Perception and Attention
- Systems Engineering and Integration
- User Interface Design
- Thesis

Students may also enroll in the following elective courses:

- Advanced Topics in Psychology (Large Scale Simulations)
- Multivariate Statistics
- Research Methods in Psychology
- Cognitive Neuroscience
- Technical Writing

Financial Support

The Psychology Department has many graduate assistantships available, which are awarded on a competitive basis. Students also may apply for Boeing University Relations Scholarships.

Faculty

Alexander L. Beckman Ph.D. – Neurochemical aspects of behavioral and physiological thermoregulatory mechanisms.

Dan Chiappe Ph.D. – Figurative language; reading; evolutionary psychology; attention; cognition.

Kenneth F. Green Ph.D. – Central mechanisms of pain inhibition; physiological psychology.

Joellen Hartley Ph.D. – Cognition aging; adult development & aging, cognitive Development.

William Kelemen Ph.D. – Metacognition; prospective memory; cognition.

Diane Lee Ph.D. – Biological psychology; cognitive methodology.

Lisa Maxfield Ph.D. – Cognitive and neural basis of selective attention; attention; memory.

Sara Smith Ph.D. – Psycholinguistics, memory and cognition.

Thomas Strybel Ph.D. – Auditory-visual space perception; auditory-visual displays; multisensory interaction; aviation psychology; human factors.

Kim Vu Ph.D. -Attention, cognition, display-control compatibility, human information processing, human-computer interaction, human factors, web design

Department of
Psychology
California State
University Long Beach
1250 Bellflower Blvd.
Long Beach, CA
562.985.5001
www.csulb.edu/~psych

For More Information:
Thomas Strybel Ph.D.
tstrybel@csulb.edu
562-985-5035

Kim Vu Ph.D.
kvu8@csulb.edu
562-985-5021



Human Factors Program

California State University
Long Beach

MASTER
OF
SCIENCE
IN
HUMAN
FACTORS
PSYCHOLOGY

