SYSTEMS DESIGN ENGINEERING

Human Factors Testing

SYDE 740 - *Topic 2*   **WINTER**

The focus of this course is on in-depth explorations of primary methods involved in human factors testing and evaluation.

We will begin with various philosophical positions regarding human factors testing and evaluation as they relate to both industrial and research applications.
We will discuss the applications and implications of data collection involving human participants; the limitations of statistical analysis; and the potential application of human factors research as guidelines for product or system design.
We will explore historical and current applications of a variety of methods including:

- surveys and questionnaires
- mock-ups. models and simulations
- human performance testing
- mental workload

Students will also be encouraged to explore human factors methods related to their own area of research.

Who should take the course: Graduate level students with an interest in human-computer interaction, interface design, usability testing, human-machine design, intelligent agents, remote operator control, virtual environments, or any other system/project that involves human users.

Graduate Students taking this course are expected to attend all the class times than students in SYDE 348 (and additional meeting times, as arranged) and workload expectations will be higher.

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