HUMAN FACTORS IN ENGINEERING DESIGN  
IND E 549 A/ENV H 549 A  
SPRING QUARTER 2015  

INSTRUCTOR  
Linda Boyle,  
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Professor, Civil and Environmental Engineering  
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Office hours: Wednesdays: 4:00 to 5:00 pm (or by appointment)  
G10A Mechanical Engineering Building (MEB)  
Seattle, WA 98195  

COURSE INFORMATION  
Meeting times: 2:30 to 3:40 TuTh  
Meeting room: MEB 243 (Tuesdays) and MEB 246 (on Thursdays)  
Co-requisite: INDE 351  
Textbooks (required):  
2. Journal article readings (provided on canvas)  

OBJECTIVES OF THE COURSE  
The objective of this course is to provide more in-depth insights on research in the human factors domain. The class is designed to provide you a better understanding of what is required to design a product or service to match the cognitive capabilities and limitations of the user population. Major focuses will be on safety, efficiency and usability. The class will go over studies conducted on design for operator performance given functional, psychological, physiological, and environmental constraints. The class will include weekly journal article readings.  

Weekly Quizzes:  
Students are expected to read the scheduled chapters beforehand. Weekly quizzes will be given that covers the material of the previous weeks for a total of 8 quizzes. The quizzes will be focused on the readings from the Wickens et al book. All quizzes will be closed book and closed note.  

Weekly readings:  
Each week, students will write a one page summary of the weekly reading, that DOES NOT reiterate the abstract, but presents the pros OR cons of the paper. Each student will have the opportunity to present his or her view on the selected reading for that week. The summary is to/uploaded before the beginning of the class on the specified due date. Points WILL BE TAKEN off for grammatical/spelling errors. The remaining part of lecture will be discussion format where all are expected to participate.  

Final project and presentations:  
A final group project will be prepared. Each group will consist of 4 people with each group presenting on the last day of the class to the undergraduate class. The instructions are included on the course website. Your grade for the project will be weighted based on the individual peer evaluation.  

Last updated on March 31 2015
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**Class Participation:**
You are expected to participate in class. If you miss class you are responsible for obtaining the class notes and the assignment. You have a responsibility to help create a classroom environment where all may learn. This means that you will treat other members of the class with the courtesy you hope to receive. The points for participation will be allocated according to the following basis: attentativeness and contributions to class discussions, and student responses to periodic in-class requests to clarify and identify confusing topics, potential quizzes, and exam questions.

**NO CELL PHONES** or **LAPTOPS/COMPUTERS** are to be used or turned on in the classroom.

**ACADEMIC HONESTY**
Students will be held to the highest standards of academic honesty. There are specific actions that are considered academic dishonesty, cheating or fraud. I follow the list outlined on the following website: https://faculty.washington.edu/mlg/students/cheating.htm
Students who conduct any of the behavior outlined in the above website will receive a failing grade in the course. If any of the items outlined on the website is unclear, it is up to the student to clarify any and all information outlined in this syllabus with me.

**COLLEGIATE POLICIES**
For each quarter hour credit in the course, students are expected to spend 2-3 hours per week preparing for the class sessions. Given that this class is 3 credit hours, the standard out-of-class preparation is 6-9 hours.

**STUDENTS WITH DISABILITIES**
Under the Americans with Disabilities Act and Section 504 of the Rehabilitation Act of 1973, instructors must make reasonable accommodations for students who have physical, mental, or learning disabilities. Therefore, if you require seating modifications or testing accommodations or accommodations of other class requirements, please let me know so that appropriate arrangements may be made.