

Mon/Wed, 5:00p- 6:20p KAP 159	J.L. Higle OHE 310H higle@usc.edu Office Hours: By Appt.	M. Taveras Ponce HSA 6214 michelle.taverasponce@med.usc.edu Office Hours: By Appt.
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Necessary Preparation: Prerequisite: ISE 495a, ISE 315 and ISE 435. As a general statement, students must be “on-track” relative to defined curricular flow within appropriate program handbooks.

Introduction: This is the second of a two-course sequence that serves as the capstone design experience for BS ISE students. The primary goal is to ensure that students are prepared for engineering practice. Demonstration of this preparation will primarily involve a significant design experience that will span the two semesters. Students will be expected to draw upon the totality of their curricular experiences, and may find that they need to go beyond these.

Outcomes: Upon completion of ISE 495ab, the student should demonstrate

- 1) an ability to define and organize a realistic project scope
- 2) an ability to recognize and manage impediments in obtaining information and approvals
- 3) an ability to present and sell ideas to higher-level management
- 4) an ability to convert a project’s worth into financial indicators
- 5) an ability to function on multidisciplinary teams
- 6) an understanding of professional and ethical responsibility
- 7) an ability to communicate effectively, using both written documents and oral presentations
- 8) an ability to use the techniques, skill, and modern engineering tools necessary for engineering practice

Textbooks (available from Amazon.com)

- *Fooled by Randomness*, Nassim Taleb, Random House Trade Paperbacks, 2005. (Required)
- *Leading Change*, John P. Kotter, Harvard Business Review Press, 2012. (Recommended)

Grading Policy:

Grades will involve a combination of individual and team scores. Most requirements have specific due dates, others have more flexible timing.

The following percentages will be used in calculating the final score for each student in ISE 495b:

Component				Component Total	
Team	Reports		Presentations		
	Interim Report #2	20%	Interim Presentation #2	15%	
	Final Report	20%	Final Presentation	15%	
<i>Total</i>				<i>70%</i>	
Individual	Peer Evaluation	10%			
	In-Class Participation	10%			
	Presentation	10%			
<i>Total</i>				<i>30%</i>	

Date	Meeting Plan	Deliverables Due
1/8	Welcome back	
1/10	n/a	
1/15	Holiday	
1/17	Leadership and Change Management Techniques	
1/22	n/a	Mandatory Group Meetings with Coaches
1/24	TBD	
1/29	n/a	
1/31	Round Table Discussion	
2/5	Sasha Strauss, Guest Lecturer: How to Brand Yourself in the Workplace	Peer Review
2/7	n/a	
2/12	n/a	
2/14	n/a	
2/19	Holiday	
2/21	Interim Presentation #2 (extended session)	Interim Report #2
2/26	TBD	
2/28	n/a	
3/5	Class Discussion: <i>Foiled by Randomness</i>	Peer Review
3/7	n/a	
3/12; 3/14	Spring Break	
3/19	n/a	
3/21	TBD	
3/26	n/a	
3/28	Round Table Discussion	
4/2	n/a	Peer Review
4/4	n/a	
4/9	TBD	
4/11	n/a	
4/16	n/a	
4/18	Final Presentation to class (extended session)	
4/23	n/a	
4/25	Final Presentation to sponsor ... details TBD	Final Report Due