

SEOR 798/680 Systems Engineering and Operations Research

Capstone Applied Project Course

Schedule

Fall, 2009 (*revised 08/28/09*)

Please note that the schedule may be modified as we make progress through the semester for better alignment with the course objectives.

Revisions in RED

DATE	Planned Subjects and Activities	Readings	<i>Suggested Timeline</i>
<i>August-September</i>			
8/31	<p>S1 – Introduction to SEOR project concepts</p> <ul style="list-style-type: none"> discussion on course intent expectations and requirements for the course discussion of projects currently being offered for consideration along with others of your own choosing a discussion on analysis, synthesis, stakeholder identification, corporate strategy, regulation a discussion on needs, wants, goals, problem statement, specification, stakeholder identification, stakeholder value mapping summary of the fall and spring term projects with lessons learned intro to SA <p>30 min. session to self-organize into project teams by interests, skills, backgrounds</p>	<ul style="list-style-type: none"> Review your notes and texts from past courses Review posted “Good Project Attributes” and Guidance Rubric 	<ul style="list-style-type: none"> Done -- Project teams organized <i>To Do -- Start on project proposals</i>

9/7	Labor Day Holiday – No Class		
9/14	<p>S2 – Project team proposals are presented</p> <ul style="list-style-type: none"> • each team presents a project proposal and rationale (value proposition) satisfying the intent specification for the project (15 min. depending on number of teams) • constructive critiques for refining proposals and getting approved 	<ul style="list-style-type: none"> • Continue to review your notes and texts of past courses • <i>Lean Enterprise Value</i>, Murman, E. et al, 2002 (see summary posting) • Intent Specifications [Levenson] 	<ul style="list-style-type: none"> • Done -- Project proposals presented • <i>To Do -- Start refining for approval</i> • <i>To Do -- Start outlining proposal development activities in a schedule (dependency network)</i> • <i>To Do – Start modeling project; this may include a SE representation language where appropriate, or an initial mathematical model where appropriate, or a combination of both</i> • <i>To Do – Start researching the problem (specification, stakeholders, needs/wants, value mapping)</i>
9/21	<p>S3 – SA continued, some discussion on creativity Team session</p>		<ul style="list-style-type: none"> • Done -- Proposals properly scoped and approved • Done – network schedule completed • <i>To Do – Continue researching the problem (specification, stakeholders, needs/wants, value mapping)</i>

9/28	S4 -Technology strategy Team session		<ul style="list-style-type: none"> • Done – Problem described and documented in depth • <i>To Do – Research and conceive of possible alternative solutions/approaches to problem</i>
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<i>October</i>			
10/5	S5 – Economics: business and technical case Team session		<ul style="list-style-type: none"> • Done – One problem solution/approach selected and justified • <i>To Do – Start conducting data gathering, analyses, simulations, etc.</i> • <i>To Do – Start website development</i>
10/12	S6 - Supply chains and value chains Team session		<ul style="list-style-type: none"> • Done – Study results documented • <i>To Do – Document results to justify proposal direction</i>
10/19	S7 -		<ul style="list-style-type: none"> • Done – Project solution/approach supported or modified • <i>To Do – Start economic study/business case</i>
10/26	S8 –		<ul style="list-style-type: none"> • Done – Economic study/business case applied to support proposal direction

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<i>November</i>			
11/2	S9 -		<ul style="list-style-type: none"> • [Extra time buffer]
11/9	S10 - Individual team meetings with instructor (status punch lists); working team meetings during class session		<ul style="list-style-type: none"> • Done – Rough draft of both final report and PowerPoint presentation reviewed • To Do – Polish presentation; complete final report
11/16	S11 - Individual team meetings with instructor (status punch lists); working team meetings during class session		<ul style="list-style-type: none"> • “ “ • “ “
11/23	S12 - Working team meetings on their own		
11/30	S13 – Team rehearsals for final project presentation (all present for oral dry runs)		<ul style="list-style-type: none"> • Done – Powerpoint presentation rehearsed • To Do – Refine presentation as needed

<i>December</i>			
12/7	S14 – Team rehearsals for final project presentation (all present for oral dry runs)		<ul style="list-style-type: none"> • “ “ • “ “
Friday, 12/18 from 12:30 – 17:00	S15 - Formal project presentations by each team (with equal individual team member participation) to the SEOR Faculty and project sponsors LOCATION: Johnson Center, third floor, Conference Room TBD		<ul style="list-style-type: none"> • <i>Due -- Written Final Project Document along with supporting deliverables to be submitted by December 18, noon ET</i>

CLASSES END FOR TERM