IPR 1 Rubric – Senior Capstone Design Project – CH402 AY142 **Cadets:**_____

	1-Needs More	2	3 - Good	4	5 - Excellent
Task organization and completion. □ Do the cadets have a clear and correct problem statement? □ Is there any evidence of task organization? □ Is there a statement of deliverables? □ Are any major tasks missing? □ Do cadets have a plan to complete the project?					
Reactor design. □ Have the cadets identified the reactor design problem? □ Do the cadets understand the major reactor design issues? □ Do they have a plan for addressing the issues? □ Have they performed any calculations yet? □ Have they identified the feed composition?					
Separator design. □ Have the cadets identified the separation problem? □ Do they understand how many separators they will need (number of splits)? □ Have they calculated the reactor product distribution yet? □ Have they identified the products from the separation? □ Have they performed the calculation on at least one split?					
Literature review. □ Have cadets examined how others have solved this problem? □ Have they used the chemical engineering design references? How many? □ Do the cadets understand the chemical reactions involved? □ Do cadets have professional-looking chemical mechanisms? □ Have cadets found the capacity and cost for similar types of units? Have they used the scaling equation to estimate total process capital investment?					
Quality of PowerPoint briefing. □ Are slides organized and clear? □ Was the number of slides appropriate for a 15 minute brieifing? □ Did the cadets each speak clearly with correct grammar? □ How did the cadets respond to questions? □ Did all group members play a significant role?					
Notes: Total Score:_____					