

Report Rubric (Projects 1-3)

Tristan will assign 75% of report grades based on this rubric. Each section is equally weighted.

	1	2	3	4
Completeness	Failed to complete presentation, first draft of written report	N/A	N/A	Completed presentation, first draft of written report
Organization	Report not organized into sections, no references to sources or figures in text.	Some sections present but others missing, weak connections between sections, references to figures or sources mostly missing.	Report organized into required sections, logical progress mostly clear, references to figures and sources mostly present where appropriate.	Logical progression with clear connections between sections, references to sources and figures in appropriate locations in text.
Data analysis	No description of data collection or analysis procedures, no figures, no attempt to connect results with theory.	Procedures for data collection and analysis unclear, figures difficult to interpret, connections with theory unclear or show incomplete understanding.	Data collection and analysis mostly clear, results presented in figures but with some components (e.g., axis labels) missing, results partially but incompletely connected with theory.	Data collection and analysis procedures clearly described, results presented in clear figures and clearly connected to theory.
Discussion	No discussion of connections between fluids lab, data and, and guest lectures; no discussion of sources or error or limitations of theory; no proposals for additional experiments or analysis.	Discussion is present but incomplete; fails to highlight important connections between the fluids lab, data lab, and guest lectures; fails to identify important errors or limitations of theory; or struggles to propose additional analysis or experiments.	Discussion mostly complete, but misses some connections between the fluids lab, data lab and guest lectures; misses some errors or limitations of theory; provides incomplete rationale in proposals for additional experiments and analysis	Thoughtful discussion that highlights multiple connections between the fluids lab, data lab, and guest lectures; thorough discussion of possible sources of errors or limitations of theory; thoughtful proposals for additional experiments or analysis.
Response to reviews	No summary or point-by-point responses.	Summary misses key changes; point-by-point response fails to address several suggestions or lacks references to relevant locations in report.	Summary is mostly complete but possibly too verbose; point-by-point response addresses most suggestions and mostly references relevant locations in report.	Succinct summary highlights key changes to report; point-by-point response briefly but clearly describes changes with references to specific locations in report.

Oral Presentation Rubric (Project 4)

Tristan will assign 75% of project 4 presentation grades based on this rubric. Each section is equally weighted.

	1	2	3	4
Slide Design	No slides titles; no visual aids.	Slide titles mostly fail to describe key points; slides include visual aids but are text-heavy.	Most slides have key points in titles; most slides focus on visual aids, but a few have excessive or too-small text.	Key points described in slide titles; slide content focused on visual aids; text is minimal and large enough to read where present.
Organization	Presentation not organized into sections; no visual aids; presentation is far too short or long.	Presentation is missing some required sections and progression is often hard to follow; visual aids are often mismatched with oral communication; presentation is over 15 minutes or less than 10 minutes.	Progression is mostly logical but occasionally hard to follow; combinations of visual aids and oral communication mostly effective but occasionally out-of-sync, presentation is over 15 minutes or less than 10 minutes.	Logical progression with clear connections between sections; effective combination of visual aids and oral communication; presentation takes most of but not more than 15 minutes.
Motivation	No motivation provided; no goals given.	Unclear description of motivation and goals; goals may be far too ambitious for the project duration.	Motivation and goals are mostly clearly described, but goals may be somewhat poorly matched to project duration.	Project clearly motivated, goals clearly articulated and achievable given the project duration.
Data analysis	No description of motivation and analysis, no attempt to summarize results through visual aids.	Unclear description of data collection and analysis; visual aids incomplete or overly complex and difficult to interpret.	Procedure for data collection and analysis mostly clear; results presented through visual aids that are occasionally incomplete or overly complex.	Procedure for data analysis and collection clearly but succinctly describes; results presented through clear and straightforward visual aids.
Discussion	No discussion of relationship between results and project goals, connections with previous labs and/or guest lectures, or directions for future work.	Discussion is present but incomplete; fails to clearly connect results with motivation and goals; fails to identify connections with previous labs and/or guest lectures; struggles to propose concrete directions for future work.	Discussion mostly complete, but misses some links between results and project goals, misses some connections with previous labs and/or guest lectures, and provides incomplete rationale for future work.	Thoughtful discussion of results that links results to project motivation and goals; highlights connections with previous labs and/or guest lectures; and motivates concrete directions for future work.