Analytical Skills

University Learning Outcome: Students will use quantitative reasoning/critical thinking skills to draw conclusions and/or solve problems.

Critical Thinking Skills Goal: Students will use critical thinking skills to identify problems/issues and develop solutions/analysis.

Objectives:
- Students will identify a problem or issue.
- Students will research, evaluate, and compare information from varying sources in order to evaluate authority, accuracy, recency, and bias relevant to the problems/issues.
- Students will generate solutions/analysis of problems/issues evaluated.
- Students will assess and justify the solutions and/or analysis.

Element	Below Expectation	Developing	Proficient	Exemplary
Problem identification	Unable to identify a			

Summarize and evaluateinformation	Propose solution/analysis for problem/issue.	Solution/analysis isnot clearly articulated and/or does not clearly relate to the problem/issue.	Solution/analysis is clearly articulated and tailored/customized to the specific problem/issue at hand.	Multiple solutions/analyses provided that are clearly articulated, tailored/customizedto the specific problem/issue at hand, and demonstrate in-depthawareness of multiple contextual factors related to the problem/issue.
Problemsolving	Able to articulate a solution/analysis, but not			

University Learning Outcome: Students will use quantitative reasoning/critical thinking skills to draw conclusions and/or solve problems.

Quantitative Reasoning Skills Goal: ULO: Students will assign and use numbers, read and analyze data, create models, draw inferences, and support conclusions based on sound mathematical reasoning.

Objectives:
- Students will apply appropriate mathematical models to solve problems.
- Students will represent mathematical information symbolically, visually, numerically and verbally and will interpret models and data with appropriate technology in order to draw inferences.
- Students will recognize the limitations of quantitative analysis.

Element	Below Expectation	Developing	Proficient	Exemplary
Identifies alternate quantitative model and technology and selects the appropriate model to fit the problem	Identifies a set of models			

Explains why a particular quantitative model does or does not apply to a given set of data.

Recognizes the