

## 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			

<p><b>Summarize and evaluate information</b></p>	<p>Propose solution/analysis for problem/issue.</p>	<p>Solution/analysis is not clearly articulated and/or does not clearly relate to the problem/issue.</p>	<p>Solution/analysis is clearly articulated and tailored/customized to the specific problem/issue at hand.</p>	<p>Multiple solutions/analyses provided that are clearly articulated, tailored/customized to the specific problem/issue at hand, and demonstrate in-depth awareness of multiple contextual factors related to the problem/issue.</p>
<p><b>Problemsolving</b></p>	<p>Able to articulate a solution/analysis, but not</p>			

### Analytical Skills

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