**Empirical and Quantitative Skills**

THECB Definition: Ability to formulate an inquiry that is scientific or mathematical in nature, and the manipulate and analyze numerical data and/or follow an investigative process using empirical and/or quantitative reasoning to satisfy the inquiry and create informed conclusions.

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| SLO’s/Indicators | Exemplary  4 | Proficient  3 | Emerging  2 | Insufficient  1 | Incomplete  0 |
| Identification | The purpose, components, and variables of the investigation/project are all clearly identified. | The purpose, components, and variables of the investigation/project are all identified. | The purpose, components, and variables of the investigation/project are mostly identified. | The purpose, components, and variables of the investigation/project are somewhat identified. | The purpose, components, and variables of the investigation/project are not identified. |
| Assimilation | The information that is required for an analysis of all investigative components is clearly evident. | The information that is required for an analysis of all investigative components is evident. | The information that is required for an analysis of all investigative components is mostly evident. | The information that is required for an analysis of all investigative components is somewhat evident | The information that is required for an analysis of all investigative components is not evident. |
| Analysis | All investigative or quantitative components are methodically scrutinized. | All investigative or quantitative components are scrutinized. | Most investigative or quantitative components are scrutinized. | Some investigative or quantitative components are scrutinized. | No investigative or quantitative components are scrutinized. |
| Presentation | A concise summary of the analysis is presented. | A good summary of the analysis is presented. | A summary of the analysis is presented. | A partial summary of the analysis is presented. | A summary of the analysis is either inadequately presented or not presented at all. |
| Application | The coherent integration of all steps of the investigation lead to an accurate, complete, relevant conclusion that is relative to the initial investigative statement. | The coherent integration of all steps of the investigation lead to an accurate, mostly complete, relevant conclusion that is relative to the initial investigative statement. | The coherent integration of most steps of the investigation lead to an accurate, mostly complete, acceptable conclusion that is relative to the initial investigative statement. | The integration of most steps of the investigation lead to a somewhat accurate, partially complete conclusion that is relative to the initial investigative statement. | The integration does not include all steps of the investigation and does not lead to an accurate, nor complete conclusion that relates to the initial investigative argument. |