Thinking across the disciplines, what should Lehman students to be able to do as quantitative thinkers and writers?

1) **Understand quantitative information:**
- Perform the mechanics of analysis
- Understand intuitively the relevance of the information
- Use and understand abstract models that stand in for complex realities
- Express understanding of variables (for ex. the relationship between income and education)
- Restate meaning in own words
- Understand the types of studies and the difference in data from these studies (correlational studies vs. random clinical trials)
- Understand why particular kinds of studies are useful
- Express understanding about how this data helps make sense of the world

2) **Synthesize information, drawing conclusions:**
- Apply quantitative information in order to understand social relations
- Use data to support a hypothesis/thesis
- Apply statistical concepts to analyze and describe relationships
- Use graphs, charts, or tables to describe tendencies, trends, and patterns
- Make projections on how data could be applied
- Have confidence about their ideas and interpretations
- See relevance of the study
- See relevance of quantitative material in all disciplines
- Synthesize quantitative material with other course ideas

3) **Articulate understanding of quantitative information:**
- Use writing to help interpret abstract data
- Talk in pairs or groups about complex data
- Be able to discuss different ways of interpreting quantitative material
- Present information in a precise way
- Be able to use the same information in different disciplines

4) **Think critically about quantitative information, evaluating and critiquing/questioning the data:**
- Evaluate the worthiness of data, identify its shortcomings
- Base own work on evidence, engage in an evidence-based practice
- Be able to answer the question “who would care about these results?”
- Question the conclusions drawn from a study
- Question the accuracy of data
- Research and evaluate studies in order to answer one’s own research question
- Both believe and doubt quantitative material
- Use quantitative material to speculate about meaning, to raise questions

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