

UNM Course Goals and NMHED Student Learning Outcomes (SLOs)**Course Goal #1: Communication****Addresses UNM Core Area 2/HED Area II: Statistics (Literacy Competency)**

SLO 1: Use correct English to distinguish association from causation and to form arithmetic descriptions and comparisons.

SLO 4: Uses ordinary English to describe and compare ratios presented in statements, tables and graphs using percent, percentage, rate and chance grammars.

Course Goal #2: Social statistics**Addresses UNM Core Area 2/HED Area II: Statistics (Critical Thinking)**

SLO 2: Can identify and evaluate known influences on a statistic.

Can think hypothetically about influences that are unknown or unmeasured.

SLO 3: Can identify, evaluate and use techniques to take control of – or control for – these influences.

Course Goal #3: Describe and compare statistics involving counts and measures**Addresses UNM Core Area 2/HED Area II: Statistics (Quantitative Reasoning)**

SLO 1: Can form arithmetic descriptions and comparisons.

SLO 3: Can control for various influences using selection, ratios and standardization.

SLO 4: Can describe and compare ratios as presented in statements, tables and graphs.

SLO 4: Can adjust (standardize) ratios for a difference in mixtures by mix-matching.

Course goal #4: Quantitative Reasoning. .**Addresses UNM Core Area 2/HED Area II: Statistics (Quantitative Reasoning)**

SLO 3: Can infer statistical significance from non-overlapping 95% confidence intervals

Can compare statistical significance before and after standardization.

SLO 4: Can describe and compare ratios presented in statements, tables and graphs.

Course goal #5: Critical Thinking: Use techniques and distinctions from the preceding goals to assess the sensitivity of a given statistic to various influences.

Addresses UNM Core Area 2/HED Area II: Statistics (Critical Thinking)

SLO 5: Can evaluate the strength of evidence provided by statistics in the everyday media, in press releases and in journal articles.