Core Curriculum Student Learning Outcomes Rubric: KA-B2. Statistical and Probabilistic Reasoning Rubric Dimensions Capstone Milestones Benchmark No

a thorough ability to

Perform basic statistical basic statistical any basic statistical basic statistical basic statistical

analyses, including analyses, including analyses, including hypothesis testing and hypothesis testing hypothesis testing and hypothesis testing or hypothesis testing and confidence intervals. and confidence intervals. confidence intervals. confidence interva B2.3: Graphical and Elegantly Applicable represen

Represent data groups graphically graphically and graphically and graphically and or
graphically and symbolically for symbolically for symbolically for symbolically for
symbolically for various various types of data, various types of data, various types of data, various types of data,
types of data, such as such as demographic such as demographic such as demographic such as demographic

. demographic information information. information. information. information.

B2.4: Application
Apply concepts of
probability and probability
measures, for instance, in
determining risk
assessment or interpreting
predictions

Skillfully applies
concepts of
probability and
probability measures
(e.g. determining risk
assessment or

interpreting
predictions).

Competently applies
concepts of probability
and probability
measures (e.g.
determining risk
assessment or

interpreting
predictions).

Struggles to apply
concepts of
probability or
probability measures
(e.g. determining risk
assessment or

interpreting
predictions).

Struggles to apply concepts of
probability and probability measures
(e.g. determining risk
assessment or

interpreting
predictions).

No
Evidence

Not

Applicable

B2Shows some .5Shows great difficulty : Evaluate Skillfully analyzes Competently analyzes No Not
Analyze and evaluate difficulty when when attempting to and evaluates and evaluates common

common statistical attempting to analyze common statistical statistical situations analyze and situations, such as making a or common statistical situations (e.g. making a claim of

polls and surveys. finding or outcomes
. of polls and surveys)

of a novel scientific polls and surveys).
finding or outcomes
of polls and surveys).

scientific finding or
outcomes of polls and
surveys). B2.6: Limitations Re (.)-tiRe (.)-ti Re (.)-tieRe (.)-ti.Ref Ref s and suRef s and sur 9 21.885 270.05 T [(Re)46T(f)19 0 0 9 24.48 2ls and su 1z4f6.13 91.q 24.857q247.49 90 9 136.7 270.05 Tm [(Re)46T(f)19 0 0 9 24.48 2ls 103.44f1]TJ El.BT34fT Q q it1.BT /T0 9 13103.44f6.13 (s a)3 (n)7T(d)-52.06u197ReeRef s[(Re)4T((.)-ti)-0 0 9 24.48 C q103