Sociology Faculty Information on SOCI 190 and Relevance to Goals of Introductory Statistics Courses

- American Statistical Association (ASA) has endorsed the guidelines and goals set forth in the Guidelines for Assessment and Instruction in Statistics Education (GAISE) College Report below, specific to “Introduction to Statistics” courses:
- The GAISE College Report (2016) applies to two year and four year institutions and while it is outdated, the goals are still acceptable within the Statistics community
- Full GAISE report: [https://www.amstat.org/asa/files/pdfs/GAISE/GaiseCollege_Full.pdf](https://www.amstat.org/asa/files/pdfs/GAISE/GaiseCollege_Full.pdf)
- Sociology faculty assert that SOCI 190 “Introduction to Research Methods” fulfill the 9 goals as outlined in the GAISE report guidelines and have highlighted which objectives in the COR correlate to these goals below:
  1. Students should become critical consumers of statistically-based results reported in popular media, recognizing whether reported results reasonably follow from the study and analysis conducted.
  2. Students should be able to recognize questions for which the investigative process in statistics would be useful and should be able to answer questions using the investigative process.
  3. Students should be able to produce graphical displays and numerical summaries and interpret what graphs do and do not reveal.
  4. Students should recognize and be able to explain the central role of variability in the field of statistics.
  5. Students should recognize and be able to explain the central role of randomness in designing studies and drawing conclusions.
  6. Students should gain experience with how statistical models, including multivariable models, are used.
  7. Students should demonstrate an understanding of, and ability to use, basic ideas of statistical inference, both hypothesis tests and interval estimation, in a variety of settings.
  8. Students should be able to interpret and draw conclusions from standard output from statistical software packages.
  9. Students should demonstrate an awareness of ethical issues associated with sound statistical practice.