

**Student Learning Outcomes for the Ph.D. degree in Statistics
at Kansas State University**

Graduates of the Doctor of Philosophy degree in Statistics will have demonstrated:

1. The ability to carry out research in statistical science
2. The ability to access and read statistical literature
3. An understanding of the major modes of statistical inference; frequentist, decision theoretic, Bayesian, and likelihood
4. Knowledge of robust procedures and alternatives to standard normal theory methods
5. The ability to model and analyze correlated data
6. Knowledge of statistical procedures based on computation and simulation
7. The ability to communicate with applied scientists and the statistical community
8. The ability to use asymptotic approximations.