

Assessment of Competencies for MS Biostatistics	
Competency	Course numbers
1. To demonstrate understanding of basic concepts of probability, random variation and commonly used statistical probability distributions.	BIOS 576A Biostatistics in Public Health BIOS 647 Analysis of Categorical Data
2. To demonstrate the ability to skillfully engage in statistical collaboration with mentors, colleagues, and clients.	BIOS 576C Applied Biostatistical Analysis BIOS 688 Statistical Consulting
3. To recognize strengths and weaknesses of proposed statistical approaches, including alternative designs, data sources, and analytical methods.	BIOS 576B Biostatistics for Research
4. To suggest preferred methodological alternatives to commonly used statistical methods when assumptions are not met.	BIOS 576A Biostatistics in Public Health BIOS 576B Biostatistics for Research BIOS 576C Applied Biostatistical Analysis
5. To demonstrate advanced competencies in areas of professional expertise and scholarship enabling advancement to further postgraduate study in statistics or biostatistics.	BIOS 688 Statistical Consulting