

**Assessment of Competencies for MS Biostatistics**

<b>Competency</b>	<b>Course numbers</b>
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