

Qualifications for Teaching STAT 305

Description

STAT 305 is meant as a second course in statistics, covering contingency table analysis, multiple regression, logistic regression, and related methods. The course is required for the Health Sciences major, so those students make up the bulk of the class. It is also a gateway into our STAT minor program. Students will have had just one previous course in statistics, and most have limited training in mathematics. The course therefore focuses on applications and practical use of techniques rather than mathematical foundations. Students should learn to use appropriate techniques to use for given data structures and to appreciate limitations of these methods. The course requires the use of R software, widely available for free download or through the online Jupyter platform.

Qualifications

Education:

- **Required:**
 - An M.Sc. or Ph.D. in Statistics or a closely related field (e.g., Biostatistics or Actuarial Science), OR
 - An M.Sc. or Ph.D. in another discipline, accompanied by evidence of successful completion of sufficient course work in Statistics (e.g., equivalent to at least a minor in Statistics). Evaluation of the adequacy of this qualification is at the chair's discretion.
- **Preferred:**
 - A Ph.D. in Statistics or a closely related field.
 - Completion of teaching workshops, certificates, or other formal instruction in teaching.

Teaching Experience:

- **Preferred:**
 - Prior teaching experience with good evaluations.
 - Experience teaching introductory Statistics and/or teaching in a large lecture theatre are especially valued.

- Familiarity with course delivery systems (especially Canvas)

Practical Experience:

- **Required:**
 - Experience with R
 - Experience with regression techniques
- **Preferred:**
 - Experience with Jupyter (preferred) and/or RStudio
 - Accreditation from some statistical society.
 - At least one year in industry or government as statistician or similar job.

Communication:

- **Required:**
 - Excellent oral and written communication skills

Applicants who have not previously been employed by the department may be required to give a guest or mock lecture to demonstrate teaching ability.

For more information, please contact the department chair at stchair@sfu.ca.

Last Modified 19 June 2019.