**COURSE: BIOL-243\* Introduction to Statistics**

**TERM: Fall 2022**

**INSTRUCTOR: S. Yakimowski**

**SUMMARY**:

Biology 243 focuses on the use of computers for the collection, management, analysis and publication of biological data. Lectures and tutorials will be delivered in-person this fall. Most of the lectures and tutorials deal with the practical application of statistical methods for the collection and analysis of biological data, as well as the foundational theory. The lectures are designed to take the student through the normal process of scientific investigation from the formulation of hypotheses and the design of experiments to the publication of results. Because this is basically a 'techniques' course, the tutorials are an integral component--each tutorial is designed to give hands on experience with lecture material, using computers to analyze data and prepare reports on the interpretation of statistical analyses.

The major duties will be the marking of assignments and exams, and helping run the tutorials. Since this is a course in the practical application of statistics in Biology, TAs are expected to help students trouble-shoot any problems they might have with statistical analyses and the use of computer hardware and software. TAs are required to learn the R software.

**DUTIES:**

1) To assist in marking in-lab assignments, midterm and final exams, and one major written project. TAs are expected to provide detailed written feedback to students on their major written projects.

2) TAs are expected to run the tutorial sessions, and answer student questions about tutorial material, particularly with reference to the practical application of software that is an integral part of this course.

3) To attend weekly TA meetings.

4) Some TAs may be required to help maintain the online component of the course through onQ (e.g., discussion forum).

**EVALUATION:**

-TAs will receive a written evaluation of their performance at the end of term from the course coordinator.

**PROFESSIONAL CONDUCT**

All Biology TAs are required to adhere to the University's Code of Conduct, as described in Section 12 of the Queen's Graduate Calendar, and Section V of the Guide to Graduate Studies in the Department of Biology. As teachers of undergraduates, TAs are expected to recognize the seriousness of all forms of Academic Dishonesty, Harassment and Discrimination and to understand the rules governing such cases at Queen's.

**PROCEDURES FOR RESOLVING PROBLEMS BETWEEN TAs and INSTRUCTORS**

Please refer to the Collective Agreement at the following link:

<http://queensu.ca/facultyrelations/teaching-assistants-and-fellows/collective-agreement>