

Winter 2024 TA Job Posting for ECON 221 course

Please give a brief description of the course content or a link to the course outline:

Statistics for Economists

This course introduces students to describing economic data and drawing inferences from features of economic data. Starting from fundamental axioms of probability, students will learn about the calculation of probabilities of basic events and the features of random variables, the most important tool for representing the outcomes of complex economic phenomena. Students will describe discrete and continuous random variables via their probability distributions and summary statistics such as means and standard deviations, as well as the relationships between two random variables in terms of covariance, correlation, and simple regression models. The concepts of hypothesis testing and confidence intervals, and the fundamentals of statistical inference are discussed for basic features of random variables and for comparing the features of more than one random variable.

Any necessary knowledge or skills needed:

Familiarity with probability theory and statistics is required. The TA will need to be able to interpret students' answers on assignments and exams, particularly as these deviate from the solutions provided by the instructor. Experience using R software and reading *R Markdown* files will make the marking of assignments easier.

Please fill out this chart as closely as you can for the TA duties and hours you predict the course will be using for the entire Winter 2024 term. This will be used as an estimation only. Graduate TAs are not permitted to work more than 140 hours for the term or more than 10 hours in any given week (70 hours or 5 hours a week for a ½ TA). When thinking of the duties you might have for your TA, we ask that you be mindful of this constraint and try not to come up against it. TAs own coursework comes first. Negotiations for a reasonable amount of time for returning marked assignments, etc. will occur as needed.

Duty	Estimated Hours for the Term or N/A	Brief description of unusual or especially time-consuming features of the duty, if any
Meetings with Course Instructor	10 hours	Meeting with instructor to discuss assignment and exam solutions, report on student performance
Class preparation	24 hours	Review of course lecture notes, to familiarize with material
Attending lectures	N/A	
Student consultation; office hours	6 hours	Responding to student concerns about grading of assignments and exams
Lecturing	N/A	

Conducting tutorials	N/A	
Grading	90 hours	<p>Assignments submitted through Learn – combination of R-based exercises, and hand written problems</p> <ul style="list-style-type: none"> • 1/5 hour each assignment x 3 assignments x 60 students = 36 hours <p>Short answer questions on exams – Two midterms – two questions each; Final exam – two questions</p> <ul style="list-style-type: none"> • 1/10 hour per question x 6 questions x 60 students = 36 hours <p>Recording marks in Learn 180 assignments + 120 midterms, 1/30 hr each = 10 hours</p>
Proctoring exams	N/A	
Other duties (describe/explain)	N/A	
Totals	130 hours	