

Math 503

Senior Seminar in Statistics, Fall 2025

Supervisor	Clark Bowman, cbowman@hamilton.edu
Course Hours	WF 2:30pm – 3:45pm, Christian A. Johnson Hall 308
Office Hours	M 2:00pm – 4:00pm, T 12:30pm – 2:00pm, WF 11:00am – 12:00pm, 1:00pm – 2:00pm Christian A. Johnson 111
Description	Math 503 is a student-led seminar focusing on advanced techniques and applications in statistics. It is also intended to be a transition from college coursework to real statistical consulting. While we will teach each other some new tools through both theory and example, the overall focus will be on critical statistical thinking and on creating and justifying convincing statistical arguments using whichever algorithms, visualizations, and data sets may be relevant to a particular situation.
Course Webpage	All documents and grades will be made available on Blackboard.
Evaluation	<ol style="list-style-type: none">1. Student feedback (10%) <i>(providing feedback to other students; full credit by default, will warn if problematic)</i>2. Teaching (10%) <i>(researching and presenting material to the class; again full credit by default)</i>3. Two written reports (15% each) <i>(written report, with working code, answering a posed statistical question)</i>4. Two mid-semester presentations (15% each) <i>(oral presentations in-class for posed statistical questions)</i>5. Final presentation and report on same topic (10% each) <i>(free projects; presentations during final exam period will be open to the department)</i>
Code of Conduct	Students are free to work together on literally everything throughout the course. Any and all outside resources and AI may be used if cited, though the actual statistical argument made by the students should be original. Since students will have to defend and explain their work, AI should ideally not be relied on for too much beyond simple coding tasks and brainstorming.
Accommodation	The College will make reasonable accommodations for students with documented disabilities. Eligible students who would like to make a formal request for this course must contact the professor during the first two weeks of class.