

# STT 872: Statistical Inference I

Michigan State University, Spring 2026

**Instructor:** Shrijita Bhattacharya

EMAIL: [bhatta61@msu.edu](mailto:bhatta61@msu.edu), OFFICE: C419 Wells Hall or by appointment.

OFFICE HOUR: Fridays 2:30 PM-4:30 PM at office or by appointment.

**Teaching Assistant:** Andrews Boahen

EMAIL: [boahenan@msu.edu](mailto:boahenan@msu.edu)

**Lectures Schedule:** Mondays and Fridays 12:40 PM - 2:00 PM, C506 Wells Hall.

**Help Room:** <https://stt.natsci.msu.edu/academics/statistics-learning-center/>.

**Course Web Page:** All course materials and homeworks will be posted on D2L.

**Recommended Background:** STT 862 and STT 881 or equivalent courses.

**Required Course Materials:** *Theory of Point Estimation*, 2nd edition, by E.L. Lehmann and G. Casella and *Testing Statistical Hypotheses*, 3rd edition, by E.L. Lehmann and J. P. Romano.

**Main References:** *Theoretical Statistics*, Topics for a Core Course, by R.W. Keener.

**Tentative Course Topics:**

- █ Topics from Chapters 1–5 in *Theory of Point Estimation*
- █ Topics from Chapters 3–4 in *Testing Statistical Hypotheses*

**Attendance:** You are expected to attend all meetings of the class. If you miss a class for whatever reason, you are responsible for all covering materials, assignments and deadlines.

In case a student is unable to attend lectures over an extended period, please collect lecture notes uploaded online and reach out to the instructor for additional help.

In case the instructor is unable to attend lectures over an extended period, lecture notes will be made available online. Also, make up classes and/or substitute lectures shall be arranged for.

**Exams:** There will be 1 midterm during the term, and the final exam.

Table 1: **Examination Schedule**

EXAM	DATE	TIME
MIDTERM:	Friday, February 27	12:40 PM - 2:00 PM at C506 Wells Hall.
FINAL:	Monday, April 27	12:45 PM - 2:45 PM at C506 Wells Hall.

If you cannot take an exam, contact the instructor as soon as possible to make other arrangements (to be considered only in case of verifiable excuses). Make-ups cannot be given after the exams have been returned.

**Homework:** There will be nine homeworks to turn in (each contributing to 3% of the total grade). Unexcused late homework (turned in up to one class date late) is given only 60% credit. Later homework is given no credit. There is no make-up for homework.

**Grading:** Attendance: 3%, Homework: 27%, Midterm: 30%, Final: 40%.

4.0 : $90\% \leq \text{Score} < 100\%$	2.0 : $60\% \leq \text{Score} < 65\%$
3.5 : $80\% \leq \text{Score} < 90\%$	1.5 : $55\% \leq \text{Score} < 60\%$
3.0 : $70\% \leq \text{Score} < 80\%$	1.0 : $50\% \leq \text{Score} < 55\%$
2.5 : $65\% \leq \text{Score} < 70\%$	0.0 : $0\% \leq \text{Score} < 50\%$

**Academic Honesty:** The Department of Statistics and Probability adheres to the policies of academic honesty as specified in the General Student Regulations 1.0, Protection of Scholarships and Grades, and in the All-University of Integrity of Scholarships and Grades which are included in Spartan Life: Student Handbook and Resource Guide. Plagiarism or any other sort of fraudulent behavior in exam and/or homework assignment will result in an automatic zero in that exam and/or homework assignment.

**ADA:** To arrange for accommodation, a student with special need should contact the Resource Center for People with Disabilities [Phone: 353-9642, Web Site: <http://www.rcpd.msu.edu>].

**Mandatory reporting:** MSU employees, with limited exceptions, are required to report allegations of sexual assault, sexual harassment, and other prohibited conduct involving members of the University community. Details for reporting can be found at

<https://civilrights.msu.edu/policies/relationship-violence-and-sexual-misconduct-and-title-ix-policy.html>.

**Grief absences:** MSU has a policy on grief absences. It is described at

<https://reg.msu.edu/ROInfo/Notices/GriefAbsence.aspx>.

**FERPA** rules on student privacy rights are available at

<http://www.reg.msu.edu/ROInfo/Notices/PrivacyGuidelines.asp>.

**Emergency situations:** For additional suggestions for handling emergency situations in the classroom, contact the Ombudsperson's office

<https://ombud.msu.edu/education-training-assessments/presentations-trainings>.

**MSU 2030: Excellence for Global Impact:** Background about the Access, Opportunity and Excellence framework can be found on the IDI website

[https://inclusion.msu.edu/about/access-opportunity-and-excellence-at-msu.html?utm\\_source=other-email&utm\\_medium=em&utm\\_campaign=faculty-staff](https://inclusion.msu.edu/about/access-opportunity-and-excellence-at-msu.html?utm_source=other-email&utm_medium=em&utm_campaign=faculty-staff)

and broader updates will be forthcoming.

**Disclaimer:** The instructor reserves the right to make any changes she considers academically advisable. Changes will be announced in class and on the course web page. It is students' responsibility to keep up with any changed policies and assignments.

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**Important Dates:**

Jan 12: Classes begin; late enrollment fee begins.

Jan 16: Close of add period.

Jan 19: Martin Luther King Day (no classes).

Feb 05: Last day for 100% refund.

Feb 27: Exam 1 (12:40 PM - 2:00 PM)

Feb 28 - Mar 08: Spring break.

Mar 09 Middle of semester; last day to drop with no grade.

Apr 26 Last day of classes.

Apr 27 Final exam (12:45 PM - 2:45 PM).

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