

# Math 10 Syllabus

Instructor: Xiaoyu Niu

## Course Information

**Course Title:** Introductory Statistics

**Term:** Fall 2024

**Meeting Time:** Tuesday, Thursday 11:00 AM - 01:15 PM

**Classroom:** G6

**Email:** niuxiaoyu@fhda.edu

**Office Hour:** Friday 4-5pm, zoom (Subject to change).

## Course Description

This course is an introduction to data analysis making use of graphical and numerical techniques to study patterns and departures from patterns. The student studies randomness with an emphasis on understanding variation, collects information in the face of uncertainty, checks distributional assumptions, tests hypotheses, uses probability as a tool for anticipating what the distribution of data may look like under a set of assumptions, and uses appropriate statistical models to draw conclusions from data.

## Student Learning Outcomes

- Organize, analyze, and utilize appropriate methods to draw conclusions based on sample data by constructing and/or evaluating tables, graphs, and numerical measures of characteristics of data.
- Identify, evaluate, interpret and describe data distributions through the study of sampling distributions and probability theory.
- Collect data, interpret, compose and evaluate conjectures, and communicate the results of random data using statistical analyses such as interval and point estimates, hypothesis tests, and regression analysis.

## Textbook and Calculator

Textbook: *Understandable Statistics*, 13th Edition, Brase and Brase, Cengage Learning

Calculator: Ti83 or Ti84

## Course Policies

- **Attendance:** Students are expected to attend all classes, to show up on time and to stay for the entire class. Any student who misses more than 3 classes before the withdraw deadline may be dropped by the instructor. Students need to inform the instructor ahead of time of any necessary absences. If a student decides not to continue with the course, it is the student's responsibility to officially drop the course.
- **Homework:** Homework is done through WebAssign. Assignments are due at 11:59 pm on Sundays. No late work is accepted.
- **Exams:** There will be three midterm exams (on 10/15, 11/7 and 12/3). There will be no make-up midterm exams under any circumstances. If there is a valid excused absence (absences excused by state law), the missing midterm exam score will be replaced by the final exam score, and necessary documentation will be required.  
The final exam must be taken at the officially scheduled time. Students are required to take the final exam in order to pass the course.
- **Academic Integrity:** Cheating and plagiarism will not be tolerated. Violations will result in disciplinary action.

## Grading

- Homework: 20%
- In Class Activities: 6%
- Midterm Exams(3): 54% (18% each)
- Final Exam: 20%

| Grade | Percentage Range |
|-------|------------------|
| A     | [93, 100)%       |
| A-    | [90, 93)%        |
| B+    | [87, 90)%        |
| B     | [83, 87)%        |
| B-    | [80, 83)%        |
| C+    | [77, 80)%        |
| C     | [70, 77)%        |
| D     | [65, 70)%        |
| D-    | [60, 65)%        |
| F     | Below 60%        |

## Note

This syllabus is subject to change at the discretion of the instructor. Students will be notified in advance of any changes.

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**Office Hours:**

|                     |   |         |         |
|---------------------|---|---------|---------|
| Zoom                | F | 4:00 PM | 5:00 PM |
| Zoom,By Appointment | F | 3:00 PM | 4:00 PM |