

Overview

We develop graphical and numerical techniques that generalize partial (i.e. sample) information to empower smart decisions by business managers. These techniques are known collectively as Statistics.

We also develop Probability, a math tool that assesses the uncertainty or reliability of statistical conclusions.

STAT 1030 provides general education credit for *quantitative and formal reasoning* and acts as prerequisite for MSCI 2800 Business Analytics.

Timing and Modality

Course Feature	Timing	Modality
Live Lecture 3:30-4:45 MW	Synchronous	Virtual
Discussion (various times) T/TH	Synchronous	Discussions A04-A06, A17-A22 are Virtual Discussions A07-A16 are In-Person
Pre-Recorded Lecture Videos	Asynchronous	Virtual
TA/Prof Office Hours	Synchronous	Virtual
Statistics Tutor Lab	Synchronous	Virtual
Supplemental Instruction	Synchronous	Virtual

Notes

- Discussion sections with in-person modality include a virtual attendance (Zoom simulcast) option: Students in these sections may choose to attend either (physically) in person or virtually through Zoom.
- Discussion attendance is required as a graded item (5% of total grade.)
 - Virtual attendance—in both virtual and in-person Discussions — is measured in each Discussion by a Zoom poll attendance question that the TA gives sometime “randomly” during Discussion.
 - The TA will hold the poll open for at least 30 seconds.
 - Students who answer the poll question meaningfully are recorded as present.
 - Students who do not answer the poll question are recorded as absent.
 - Discussion attendance is recorded as Roll Call Attendance in ICON Grades.
- Students are encouraged to open two zooms during live lectures:
 - Prof. Whitten broadcast (one-way) Live Lecture **Please keep audio and video muted.**
 - TA interactive (two-way) Live Lecture **Share video, un-mute audio to speak.**
- Prof. Whitten’s live lectures are recorded and accessible in ICON UICapture.
- Discussions are recorded but not publicly available by default. Students may request special access to a Discussion recording from their TAs due to necessary absence or other valid reason.

Required Course Tools

- Statistics for Business Course Pack (Two-Notebook Bundle) by Whitten. \$28.00 at Iowa Hawk Shop in IMU.
- Used textbook *The Practice of Statistics for Business and Economics*, 3rd edition 2011 by Moore, ISBN 978-1429-2425-30.
- Calculator that automatically calculates standard deviation from a sample of numbers input into the calculator. (Google your calculator's directions to confirm this capability.)
- Computer (e.g. laptop)
- Optional but highly recommended: Personal Blank Notebook to write homework answers in. Similar to Accounting courses, it's a smart strategic decision to document and troubleshoot your Stats homework practice. Recording homework answers, tracing mistakes, then correcting them is virtually guaranteed to provide a Bus Stats competitive advantage.

ICON Course Navigation

Everything starts from the [ICON Home Page](#). From there branch to:

- Recent Announcements
- Zoom links to all course features
- COURSE TIMELINE Module – Your One-Stop Destination for Weekly Course Details

Grades

- All graded quizzes and exams are open-notes and open-book: You may use any course materials. But may not use the internet nor can you accept or receive help from any other person. (The latter is the Business Statistics Honor Code.)
- Business Stats Notebooks are organized by *topic*. Topics 1–8, 10 are graded this semester. (Topic 9 is purely optional for students who want additional Stats practice.)
 - Each graded topic includes two types of quizzes:
 1. **Preview Quiz** (low stakes assessment.) Take after working through answers to Notebook examples in Topic Pre-Recorded Lecture Videos. This ICON quiz allows up to three attempts; the graded quiz score is the highest score from all attempts.
 2. **Homework Quiz** (medium stakes assessment.) Take after working through Topic Homework. A single quiz attempt only.
- No missed quizzes are made up under any circumstances. Instead, students are awarded two Hall passes that may be used for two quiz score drops in both quiz categories for any necessary absence, regardless of reason.
 - Contact Prof. Whitten if extended illness or other emergency causes you to miss more than two quizzes in either category over the course of the semester.

(Grades continued next page)

- Similarly students are awarded two Discussion attendance hall passes (free Discussion absences) for necessary absence. Discussion attendance is recorded starting the second week of the semester.

There are 29 Discussions but we record attendance for only 27 so calculate:

$$n = \# \text{ absences starting Feb. 2}$$

$$n^* = \max(n, 2)$$

$$\text{Discussion Percent} = \frac{27 - n^*}{25} \times 100$$

- There are two Midterm Exams and a (comprehensive) Final Exam. Midterms are tentatively scheduled for these dates: **Exam dates can be changed only by ICON Announcement.**

- Midterm 1 over Topics 1–3: Wed. March 3 3:30-4:45. (See exam details in ICON.)
- Midterm 2 over Topics 4–6: Wed. April 7 3:30-4:45.

- Midterm Exam Score Replacement Policy:

- If the final exam percentage score exceeds at least one of the midterm exam percentage scores, then the single lowest midterm score is replaced by the final exam score (at most one replacement) in the calculation of the course grade.
- Since the final exam is comprehensive, you have a second chance to score higher one if the midterm exams doesn't go well.

- Weights for Course Percent:

5%	Discussion Grade
5%	Preview Quiz
20%	Homework Quiz
20%	Midterm Exam 1
20%	Midterm Exam 2
30%	Final Exam
<hr/>	
100%	

- Calculate the Course Percent:

1. Drop the two lowest Preview Quiz scores and two lowest Homework Quiz scores. From remaining scores calculate a Preview Quiz Percent and HW Quiz Percent.
2. Replace your lowest Midterm Exam percent score with your Final Exam percent score, though only if such replacement improves your score (at most one such replacement.)
3. Now use the following formula:

$$\begin{aligned} \text{Course \%} = & (0.05)(\text{Discussion}) + (0.05)(\text{Preview Quiz}) + (0.20)(\text{HW Quiz}) + (0.20)(\text{Midterm 1}) \\ & + (0.15)(\text{Midterm 2}) + (0.30)(\text{Final Exam}) \end{aligned}$$

- Course grades are earned by achieving the following minimum course percents:

A	92%	A–	90%	B+	88%
B	82%	B–	80%	C+	78%
C	72%	C–	70%	D+	68%
D	62%	D–	60%		
F	Below 60%				

Course Percent is rounded up to two decimal places. Then for instance, the course percent 87.99% earns grade B while 88.01% earns grade B+.