WELCOME TO: STAT 1430 AU 22 STATISTICS FOR THE BUSINESS SCIENCES

Course Leaders

- DR. RUMSEY – Course Coordinator and Online Lecture Podcasts
  - Email: rumsey-johnson.1@osu.edu
  - Office Hours:
    - T TH 2-3 in Cockins Hall 227 or by prior appointment on Zoom or in person

KEITH RODGERS – Day Lecturer
- Office Hours: T Th 4-5 pm in 212b or by prior appointment.
- Email: rodgers.277@osu.edu

SEAN O’NEILL – Night Lecturer
- Office Hours: MW 9-10am in 212c Cockins or by prior appointment.
- Email: oneill.90@osu.edu

TUTOR ROOM:
For a place to ask specific statistical questions or get extra help on recitation work, visit the In- person Tutor Room in Cockins Hall or the Virtual Tutor Room on Zoom. The Stat Help Room is open selected hours during the week, is free, and is staffed by TAs. For info see https://mslc.osu.edu/tutoring-and-course-resources/statistics-shared-office-hours

EMAIL NOTE:
✓ All email correspondence must be using your OSU name.# address or we cannot respond. Thanks!

Course Description:
Statistics 1430 is an introduction to the fundamental concepts of probability, statistics, and data analysis. Topics include surveys and experiments, numerical and graphical summaries, discrete and continuous random variables, simple linear regression, relations in categorical data, sampling distributions for means, and introduction to confidence intervals. The prerequisite is Math 1131. We assume you can do basic integration. This course satisfies the General Education foundation requirement in Mathematical and Quantitative Reasoning or Data Analysis which has the following goals and expected learning outcomes: Goals: Successful students will be able to apply quantitative or logical reasoning and/or mathematical/ statistical methods to understand and solve problems and will be able to communicate their results.

Expected Learning Outcomes (ELOs): Successful students are able to: 1.1 Use logical, mathematical and/or statistical concepts and methods to represent real-world situations. 1.2 Use diverse logical, mathematical and/or statistical approaches, technologies and tools to communicate about data symbolically, visually, numerically and verbally. 1.3 Draw appropriate inferences from data based on quantitative analysis and/or logical reasoning. 1.4 Make and evaluate important assumptions in estimation, modeling, logical argumentation and/or data analysis. 1.5 Evaluate social and ethical implications in mathematical and quantitative reasoning. This course also satisfies the Legacy General Education requirement in Data Analysis, which has the following goals and expected learning outcomes: Goals: Students develop skills in drawing conclusions and critically evaluating results based on data. Expected Learning Outcomes: 1. Students understand basic concepts of statistics and probability. 2. Students comprehend methods needed to analyze and critically evaluate statistical arguments. 3. Students recognize the importance of statistical ideas.

Stat 1430 Carmen Website:
Please check the course website frequently as new announcements and information are added all the time. Here are some of the materials that are posted on Carmen:

- Course announcements, schedule, and other course information
- Announcements/changes/updates in the course
- Lecture outlines and podcasts for every lecture. Please take notes on the outline as you listed to the podcast.
- All recitation materials; solutions posted as we go along.
- Exam review materials

Textbook

- **My Stat Lab** is REQUIRED for Stat 1430. It includes the e-book and our statistical software. It’s a part of Carmen Books, already incorporated in your course fee at a much lower price. You don’t need scholarship or financial aid money to register for it.
- **The instructions to register for access to MyStatLab are under the COURSE INFORMATION MODULE of Carmen.** (If you want to opt out go to the OSU Carmen Books website.)

Technology

- Calculators are required on the exams if you don’t want to do hand-calculations.
- **INSPIRE BRAND CALCULATORS (or equivalent) ARE NOT ALLOWED.**
- **Data Files** will be used in the class during recitation. You can access all data sets through the Stat 1430 Carmen website.
- **Computer Software: StatCrunch.** This software is required comes as a part of My Stat Lab. You will need it for recitations and possibly homework.

Course Topics List

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<th>Module 1: Data Collection: Surveys and Experiments</th>
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<td>Module 2: Organizing Data with Graphs and Descriptive Statistics</td>
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<td>Module 3: Using StatCrunch Correlation and Regression</td>
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<td>Module 4: Correlation and Regression</td>
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<td>Module 10: Normal and Binomial Distributions</td>
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<td>Module 11: Sampling Distributions and Confidence Intervals (CI)</td>
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<td>Module 12: Hypothesis Tests (HT) for Population Mean (sigma known)</td>
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<td>Module 13: T-distribution</td>
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<td>Module 14: CI and HT for the Population Proportion</td>
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Recitation Assignments and Recitation Sessions

- A Covid Note: If you have/get Covid and are enrolled in an in-person recitation you may attend one of the online recitations while you are in quarantine. The zoom information is on Carmen under the Course Information Module. You may also watch the lecture podcasts posted online, it’s the same material as the in-person lecture.
- Two recitation assignments are due each week and are due on the following Monday at 11:59pm, submitted online, starting Monday of Week 2, when Rec 1A and 1B are due. See the MODULES section of Carmen on each topic for recitations pertaining to that topic.
- You are assigned to 2 recitation sessions per week. We work on the weekly recitation assignments in groups in recitation, as well as highlight the big ideas from lecture and work examples.
Late work is not accepted unless there are extenuating long-term circumstances that are documented. The lowest 3 assignments are dropped to cover all work that is not turned in for any other reason.

Questions on the assignment will cover material recently covered in lecture.

Each recitation assignment will be worth 10 possible points. Most of the time we will grade 5 random problems for 2 points each.

Recitation questions will include short answer work as well as MC/TF.

Make sure you bring completely filled-in lecture notes and do the lecture quizzes before recitation. We do not have time to explain material from scratch and will not be able to do so in recitation.

You can also get help in the tutor room or office hours.

Lecture- Online Quizzes in Carmen:

- All lectures are online in video format. They are in 15 minute sections. After each topic there will be a short lecture quiz that asks questions about the lectures for that topic.
- LECTURE QUIZZES ARE DUE on Fridays at 11:59pm the same week they are assigned, starting the Friday of Week 1. We strongly encourage you to finish them before recitation, however.

Homework – Online Quizzes in Carmen:

- Each week you will complete an online Homework of 20 questions worth 20 points, due the following Monday at 11:59 pm, starting with Homework 1 due Monday of Week 2. We drop the lowest HW grade. They will appear as quizzes on Carmen. You may use any materials you want to complete the homework. We encourage you to work on your own to get the most learning possible. Solutions will be provided after the due date/time has passed.

Exam Information and Policies:

- **Number of exams.** There will be one midterm exam and one final exam. The final exam will contain material after the midterm as well as regression and correlation.
- **Exam Monitoring:** To monitor you during the exams you will have your phone camera on and it will be logged into zoom, recording you while you take the exam. If the TA wants to see your screen at any time they will send you a chat message; at that point you must show your screen or your exam will not be accepted.
- **Exam Content and Advice.** Exam questions are all multiple choice / true/false. An online practice exam will be posted for each exam, as well as review materials including old (on paper) exams. Read the document on how to study for my exams in the exam review materials module.

- **Exam materials.** You may use your own course materials (notes, book, etc) during exams. However, you are not allowed to communicate with any other person, or go outside the exam website. This will be monitored and locked down. A formula sheet is posted on the Carmen website under the COURSE INFORMATION Module, you may use it on exams. Statistical tables from the text are also on Carmen under COURSE INFORMATION
- **You MUST HAVE** your Buck-ID available to show the camera during the exam.
- **No-Question policy during exams.** We are not able to answer questions during the exams. To that end, exam questions are written very clearly, to avoid misunderstanding.
- **If you’re late to an exam, had the wrong day** on your schedule, or missed the exam for any unexcused reason, you might not be allowed to make it up and may receive a zero. If you are allowed to take a make-up, you may receive a penalty of up to 25% of the total points possible on the exam. Any missed exams with no communication to us within 24 hours (except for extreme emergencies) may receive a 0.
- **Make-up Exams:** If you have a documented class conflict there will be a make up exam scheduled for the same day. More information on this as the exams get closer. If you have an emergency or extended illness (such as Covid) and are going to miss an exam please notify Dr. Rumsey as soon as possible so arrangements can be made. Please also have documentation (doctor’s note, etc.) that says you were too sick to take the exam (not just that you visited the doctor) Your documentation must be approved prior to your being allowed to take a make-up.
• No early final exams – no exceptions. Plan your schedule in advance, including the purchase of plane tickets, so you leave AFTER our final is over.

Academic Misconduct:

✓ Academic misconduct will not be tolerated and will be dealt with procedurally in accordance with University Rule 3335-31-02.
✓ Academic Misconduct can result in receiving an E in the class, one full grade lower in the class, and/or academic probation.
✓ Communicating with any other person or any resource outside of Carmen or your notes on exams is Academic Misconduct.
✓ Using unauthorized resources, such as Course Hero, or Chegg or any previous semester materials to turn in work is considered Academic Misconduct.

Make-Up Assignment Policy – Restricted:

✓ We do not have make-up recitations except for extended emergency situations or extended illness – if you are in one of those situations you must let us know right away so we can work with you. To cover these situations, we do drop 3 recitations, 1 HW, and 1 lecture quiz.
✓ If you are on university business such as a conference, university trip, or if you are an athlete or a member of the military, or if you are celebrating a religious holiday please let your grading TA know prior to your leaving so your make up work can be arranged. Make up work is due on the first recitation you are due back.
✓ If you have an extended illness or extended emergency and this illness causes you to miss more than the allowed number of dropped recitations and/or quizzes, obtain documentation and contact Dr. Rumsey immediately.
✓ We cannot add additional dropped assignments. Save the drops for when they are needed!

GRADE COMPONENTS:

| Weekly Recitation Assignments | 25% |
| Out-of-Class HW | 20 points each, 20 questions, 90 min each. These are done as Quizzes on Carmen. We drop the lowest score; this includes HW missed due to any reason except for extended illness that includes documentation. | 25% |
| Lecture Quizzes | 6 points each, 3 questions. These are done as Quizzes on Carmen. We drop the lowest score. | 5% |
| Midterm: Tues Oct 11 from 7-8:15 PM - NIGHT (Eastern Standard Time) | 20% |
| Final Exam: Mon Dec 12 from 9-10:50 AM - MORNING (Eastern Standard Time) (Final contains all the material after the midterm plus regression/correlation) | 25% |

NO EARLY FINALS! NO EXCEPTIONS!

Grades Statement – Important!

We believe strongly that grades are earned, not given. If you need to achieve a certain grade in this course, be careful to complete all assignments, plan appropriate time for studying, come to office hours/tutor room and ask questions, review feedback you receive on graded activities so you can talk to us about any problems you missed, and get help as needed in order to achieve your goal. We hope your grade in the course will be just as important to you on Day 1 as it is at the end of the semester, especially since you will have known the expectations of this course all semester and are in control of deciding what grade to earn. We do not bump grades at the end of the semester, we do not have extra credit and we cannot change grades based on a person’s circumstances. We may or may not curve the exams depending on how students do. But we do not curve the final total points at the end.

IMPORTANT! Keep track of your grades!!
Please check the Carmen website for your recitation and exam scores frequently.

If something is wrong or missing notify your TA within one week of when that item was graded by the TA. TAs will grade all recitations within 1 week.

We can’t address problems regarding prior missing grades at the end of the semester.

Grading Scale:

We will assign final course grades based on the grading scale below.

<table>
<thead>
<tr>
<th>Grade</th>
<th>Percentage Range</th>
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<tbody>
<tr>
<td>A</td>
<td>93% and up</td>
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<tr>
<td>A-</td>
<td>90% – 92%</td>
</tr>
<tr>
<td>B</td>
<td>83% – 86%</td>
</tr>
<tr>
<td>B-</td>
<td>80% – 82%</td>
</tr>
<tr>
<td>C</td>
<td>77% – 79%</td>
</tr>
<tr>
<td>C-</td>
<td>73% – 76%</td>
</tr>
<tr>
<td>D</td>
<td>67% – 69%</td>
</tr>
<tr>
<td>D+</td>
<td>60% – 66%</td>
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</tbody>
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Addressing Issues of Differing Abilities:

Any student who feels they may need an accommodation based on the impact of a disability should contact the instructor privately to discuss your specific needs.

Students with documented disabilities should also contact the Student Life Disability Services (SLDS) in 098 Baker Hall (phone: 292-3307) to coordinate reasonable accommodations for the course.

You MUST BE REGISTERED through SLDS in order to receive accommodations.

SLDS forms must be given to the course coordinator (Dr. Rumsey) as early in the semester as possible to be filled out and returned to you in time.

SLDS requires at least 3 business days to coordinate an exam for someone who is already registered through SLDS. For someone not registered with SLDS by that time, we cannot guarantee accommodation.

PLEASE TAKE CARE OF YOURSELF (OSU Mental Health Statement):

As a student you may experience a range of issues that can cause barriers to learning, such as strained relationships, increased anxiety, alcohol/drug problems, feeling down, difficulty concentrating and/or lack of motivation. These mental health concerns or stressful events may lead to diminished academic performance or reduce a student’s ability to participate in daily activities. The Ohio State University offers services to assist you with addressing these and other concerns you may be experiencing.

If you are or someone you know is suffering from any of the aforementioned conditions, you can learn more about the broad range of confidential mental health services available on campus via the Office of Student Life’s Counseling and Consultation Service (CCS) by visiting ccs.osu.edu or calling 614--292--5766. CCS is located on the 4th Floor of the Younkin Success Center and 10th Floor of Lincoln Tower. You can reach an on-call counselor when CCS is closed at 614-292-5766.

If you are thinking of harming yourself or need a safe, non-judgmental place to talk, or if you are worried about someone else and need advice about what to do, 24 hour emergency help is also available through the Suicide Prevention Hotline (Columbus: 614-221-5445 / National: 800-273-8255); or text (4hope to 741741); or at suicidepreventionlifeline.org

Section Changes, Unpaid Fees: The instructor and TA will not under any circumstances sign paperwork regarding section changes. E-mail Jean Scott in the Statistics Office (jscott@stat.osu.edu) for the policy on section changes. If your fees are unpaid, you should not be attending class. However, if there is a valid reason (e.g., financial aid hasn’t gone through), submit this in writing (with documentation) to Jean Scott asap (jscott@stat.osu.edu)