

**STAT 2004**  
Introductory Statistics  
Fall 2016

**Instructor:**

**Name:** Dr. Leanna House

**Office:** 417A Hutcheson Hall

**Email:** lhouse@vt.edu

**Office Hours:** Mondays 2:30-3:30pm or  
by appointment, [www.apps.stat.vt.edu/house/teaching.html](http://www.apps.stat.vt.edu/house/teaching.html).

**Course Information:**

**Lecture Times:** Monday, Wednesday, Friday, 10:10-11:00am

**Lecture Location:** Squires Student Center, Colonial Hall - Please sit up close

**Recitations:** All recitations are from 4:00pm-4:50pm, but on different days. Refer to your class schedule to learn your day and location, which are as follows:

CRN	Day	TA	Email	Location
87449	Monday	Lata Lodali	<a href="mailto:latak215@vt.edu">latak215@vt.edu</a>	Goodwin 145
87452	Tuesday	David (Austin) Cole	<a href="mailto:davidc89@vt.edu">davidc89@vt.edu</a>	Surge 103A
87455	Thursday	Christopher Grubb	<a href="mailto:ctgrubb@vt.edu">ctgrubb@vt.edu</a>	Surge 103A
87456	Wednesday	Jennifer West-Yerxa	<a href="mailto:jenni75@vt.edu">jenni75@vt.edu</a>	Randolf 221

Students are expected to attend recitation. Quizzes can be issued in Recitation. If too few go, we will have to start taking attendance. PLEASE GO!

**Final Exam:** Tuesday, December 13, 2016 at 3:25-5:25pm

**Textbook(s):** *OpenIntro Statistics* by Diez, Barr, and Cetinkaya-Rundel (3rd Edition).

It is free and available online at [www.openintro.org/stat](http://www.openintro.org/stat). Note an older edition is not recommended due to the ordering of the topics. While the PDF is free, I recommend purchasing a paperback copy online for \$8.50. Additionally, helpful and cheap paperback statistics references can be found at any bookstore or even thrift store.

**Software:** JMP (version 11 or higher). I have version 12. I will use this version for all exercises, assignments, etc.

**Website:** See Canvas

**Grading:**

What:	Exam 1	Exam 2	Final Exam	Quizzes	Homework+Labs	Project
Dates:	≈Oct 7	≈Nov 4	Dec 13	–	–	≈Nov 28
Percent:	20%	20%	20%	10%	15%	15%

Exams 1 and 2 will take place in-class and tentative dates are, respectively, Oct 7th and Nov 4th. However, the dates could change and will be announced in class, with two week's notice. The final exam is Tuesday, Dec 13th at 3:25pm. The tentative due date for the project is Nov 28th (the Monday after Thanksgiving break).

### **Formal Course Description:**

Fundamental concepts and methods of statistics with emphasis on interpretation of statistical arguments. An introduction to design of experiments, data analysis, correlation and regression, concepts of probability theory, sampling errors, confidence intervals, and hypothesis tests. Pre: MATH 1014 or 1015 (Pre-calculus).

### **Goals:**

My goal is to develop your “data literacy.” I want you to

- develop your own confidence in collecting, processing, and learning from data.
- make data-supported statements/judgements/arguments.
- think critically about data-supported statements/judgements/arguments.
- use creative, problem-solving skills to learn from data.
- select relevant visualizations and quantitative summaries to communicate what you learn in data.
- recognize when, how, and why some technical methods can make you data-supported statements strong.
- draw responsible, ethical conclusions (inferences) from data.
- make connections with what you observe in data and the greater population/unknown.

### **Absence/Late Policy:**

There ISN'T one. That is, unless you have a severe problem/event or university sponsored excuse (e.g., in the hospital, attending a funeral, making court appearances, or participating in VT music or athletic events), late or missed assignments are NOT acceptable. Thus **NO LATE HOMEWORK and NO MAKE-UP QUIZZES NOR EXAMS**. That said, I understand that you are human beings and have lives outside of school. Thus, I will DROP the lowest quiz grade (if we have more than one) and the lowest homework/lab grade. This means that, if you miss one homework and/or one quiz, you are ok. The zero will not count toward your grade.

### **Students:**

As supported by Virginia Tech's Principles of Community, all students will be treated equally (<http://www.vt.edu/diversity/principles-of-community.html>). Those with special needs can be accommodated easily. For specific questions. refer to <http://www.ssd.vt.edu/>.

### **Academic Honesty:**

The Undergraduate Honor Code Pledge- that each member of the university community agrees to abide by- states: “As a Hokie, I will conduct myself with honor and integrity at all times. I will not lie, cheat, or steal, nor will I accept the actions of those who do.” Students enrolled in this course are responsible for abiding by the Honor Code. A student who has doubts about how the Honor Code applies to any assignment is responsible for obtaining specific guidance from the course instructor before submitting the assignment for evaluation. Ignorance of the rules does not exclude any member of the University community from the requirements and expectations of the Honor Code. For additional information about the Honor Code, please visit: <https://www.honorsystem.vt.edu/>.

- In this class, students are welcome and encouraged to work with others on homework. However, each student must hand-in his/her OWN assignment. Students may also work in groups for projects (project groups will be assigned). Project instructions will be given later in the semester. For all tests and quizzes, ALL work is done individually.
- I take the Honor Code very seriously in this course. The normal sanction I will recommend for a violation of the Honor Code is an F\* sanction as your final course grade. The F represents failure in the course. The \* is intended to identify a student who has failed to uphold the values of academic integrity at Virginia Tech. A student who receives a sanction of F\* as their final course grade shall have it documented on their transcript with the notation FAILURE DUE TO ACADEMIC HONOR CODE VIOLATION. You would be required to complete an education program administered by the Honor System in order to have the \* and notation FAILURE DUE TO ACADEMIC HONOR CODE VIOLATION removed from your transcript. The F however would be permanently on your transcript.

### **Some Keys to Success:**

- Attend all lectures. Lectures notes will be crucial!
- Do the homework and labs.
- Read and seek other references, when necessary.
- ASK QUESTIONS.

### **Changes to the Syllabus:**

The instructor reserves the right to make changes to the syllabus during the course. Any necessary changes will be announced in class and posted on the course website.