

FCS 3210-90: FCS Statistics Online (Spring 2017)

Department of Family and Consumer Studies
Credit Hours: 4. This course has a QI designation.

Professor: Jessie Fan, Ph. D.
242 Alfred Emery Building (AEB)
Office hour: Tuesdays 10:30am-noon. Other times by appointment
Phone: 801-581-4170 (no voicemail. Please send an email if you need a call back)
Email: Use Canvas email. Please do NOT use my regular email.

Please note: * For content questions, please provide details such as the textbook page number, unit and slide numbers, or assignment and question numbers. I will try my best to get back to you within 24 hours.
* In the interest of not wasting your time and my time, please note that I will NOT respond to two types of emails: 1) emails sent to my regular email address, and 2) emails requesting makeup for assignments and discussions regardless of the reason. (Please see makeup policy later in the syllabus).

Course description:

The goal of this class is for students to learn basic statistical techniques relevant to social science research. Topics include means, standard deviations, T-tests, chi-square, correlations, regression analysis, and computer assignments.

Course Objectives:

Upon completion of this course the student should be able to:

1. Understand basic techniques of statistical analysis as applied in social science research.
2. Conduct basic statistical analysis using a calculator, a spreadsheet software, or a statistical software.
3. Enhance analytical thinking relating to data analysis, interpretation, and the presentation of data in a written format.

Textbook:

Introductory Statistics (2013). Openstax College, Rice University.

Available online for free at <https://openstax.org/details/books/introductory-statistics>

ISBN-10 1938168208

ISBN-13 978-1-938168-20-8



Evaluation Methods and Point Allocation:

13 weekly assignments	24% (lowest score dropped)
13 weekly group discussions (1 post + 2 responses)	12% (lowest score dropped)
Exam I (covers Unit01-Unit06)	32% (proctored by Uonline)
Exam II (covers Unit07-Unit12, not comprehensive)	32% (proctored by Uonline)

All **assignments and discussion posts** are due by **11:59pm on Saturday of each week**. Before the deadline, you can access an assignment multiple times but can only submit once by the deadline.

Both exams (Exam 1 and Exam 2) will be arranged through Uonline. Please register using the “schedule exams” link on the left side of the course Canvas homepage as soon as possible so you can have your choice of time and location.

You can take one letter-sized page of notes (double-sided, hand-written or typed) with you to the proctored exams. You should also take a calculator with you. Each exam will have 60 multiple choice questions and will be on Canvas, protected by a password. Please present your U student ID when checking in at the Uonline testing site you have chosen at registration. You will have 120 minutes to finish an exam.

Grading Scale:

		92.0% or higher	A	90.0%-91.9%	A-
88.0%-89.9%	B+	82.0%-87.9%	B	80.0%-81.9%	B-
78.0%-79.9%	C+	70.0%-77.9%	C	65.0%-69.9%	C-
63.0%-64.9%	D+	55.0%-62.9%	D	50.0%-54.9%	D-
Lower than 50.0%	F				

Course Outline (Any change of dates will be posted on Canvas):

Week 1 (1/9-1/14)	Getting familiar with the course and background material
Week 2 (1/15-1/21)	Unit 1. Sampling and data (Reading textbook ch. 1)
Week 3 (1/22-1/28)	Unit 2. Descriptive statistics (Reading textbook ch. 2)
Week 4 (1/29-2/4)	Unit 3. Probability topics (Reading textbook ch. 3)
Week 5 (2/5-2/11)	Unit 4. Random variables (Reading textbook ch. 4 & 5)
Week 6 (2/12-2/18)	Unit 5. The normal distribution & the central limit theorem (Reading textbook ch. 6 & 7)
Week 7 (2/19-2/25)	Unit 6. Confidence intervals (Reading textbook ch. 8)
Week 8 (2/26-3/4)	Exam 1. Please register with Uonline!
Week 9 (3/5-3/11)	Unit 7. Hypothesis testing with one sample (Reading textbook ch. 9)
Week 10 (3/12-3/18)	Spring break
Week 11 (3/19-3/25)	Unit 8. Hypothesis testing with two samples (Reading textbook ch.10)
Week 12 (3/26-4/1)	Unit 9. The Chi-square distribution (Reading textbook ch. 11)
Week 13 (4/2-4/8)	Unit 10. Correlation, ANOVA, and linear regression I (Reading textbook ch.12 &13)
Week 14 (4/9-4/15)	Unit 11. Regression II (Reading textbook ch. 12 &13 with additional reading)
Week 15 (4/16-4/22)	Unit 12. Regression III (Reading textbook ch. 12 & 13 with additional reading)
Week 16 (4/23-4/29)	Exam 2. Please register with Uonline!

Assignment Makeup Policy:

There will be NO makeup or reassigning of any assignments or discussion posts. I understand that occasional circumstance beyond your control happens, and as such, I will drop your lowest score in each category at the end of the semester to account for such a situation. If you know you are going to be busy in a future week, please work on the material ahead of schedule. **Please respect both your time and my time and do not send me makeup requests.**

Exam and Exam Makeup Policy:

All exams are proctored by UOnline. If you are out of state, please contact Uonline (instead of the instructor) to make proctor arrangement as soon as possible. You really do not want to miss a proctored exam. However, if you must, contact me as soon as possible and definitely BEFORE the relevant exam or no makeup will be allowed. All makeup exams will be given at the end of the semester during the period of Exam II. The makeup exam will be different from the original exam.

Extra Credit Policy:

If you do miss more assignments than you would like, or if you would like to simply earn some extra credit, you are encouraged to write a reflection paper on a relevant social science topic by reading an academic research paper in an academic journal, with a focus on its statistical analysis. Please send the full paper in PDF file to me via Canvas email for approval. The last day to submit an extra credit assignment is 4/25. Typically one extra credit point is given for each reflection paper. A maximum of two extra credit opportunities is allowed for each student.

ADA statement:

The University of Utah seeks to provide equal access to its programs, services and activities for people with disabilities. If you will need accommodations in this class, reasonable prior notice needs to be given to the Center for Disability Services, 162 Union Building, 581-5020 (V/TDD). CDS will work with you and the instructor to make arrangements for accommodations. While CDS and the instructor will make sure your exam is set up for the allowed extended time, if you choose to take your exam at a regular Uonline site, it is your responsibility to make sure that you have enough time before the site closes.

Accommodations Policy:

Some of the readings, lectures, films, or presentations in this course may include material that may conflict with the core beliefs of some students. Please review the syllabus carefully to see if the course is one that you are committed to taking. If you have a concern, please discuss it with me at your earliest convenience. For more information, please consult University of Utah's Policy 6-100 at <http://regulations.utah.edu/academics/6-100.php>

Student and Faculty Responsibilities:

All students are expected to maintain professional behavior in the classroom or online setting, according to the Student Code, spelled out in the Student Handbook. Discussion threads, e-mails, and chat rooms are all considered to be equivalent to classrooms, and student behavior within those environments shall conform to the Student Code. Students have specific rights as detailed in Article III of the Code. The Code also specifies proscribed conduct (Article XI) that involves cheating on tests, plagiarism, and/or collusion, as well as fraud, theft, etc. Students should read the Code carefully and know they are responsible for the content. According to Faculty Rules and Regulations, it is the faculty responsibility to enforce responsible classroom behaviors, and I will do so, beginning with verbal warnings and progressing to dismissal from and class and a failing grade. Students have the right to appeal such action to the Student Behavior Committee. For more information, please consult University of Utah's Policy 6-400 at <http://regulations.utah.edu/academics/6-400.php>

Disagreement about Grades:

If you disagree with the grading of a particular assignment or exam, you need to send an e-mail to me explaining why you think you deserve more or less points. I will then regrade your assignment or exam. Be aware that your grade can be lower, higher, or unchanged as a result of the regrading.

Withdrawal Policy:

For information regarding withdrawal policy and related tuition and fees, please contact the Registrar's Office (801-581-5808). For more information, please consult University of Utah's Policy 6-100 at <http://regulations.utah.edu/academics/6-100.php>

Incomplete:

An incomplete will only be granted if you can justify to the instructor that you cannot finish the course because of circumstances beyond your control, and that you have a passing grade at the time of the request, and if the majority of course work is already completed. For more information, please consult University of Utah's Policy 6-100 at <http://regulations.utah.edu/academics/6-100.php>

Electronic or Equipment Failure:

It is your responsibility to maintain your computer and related equipment in order to participate in the online portion of the course. Equipment failures will not be an acceptable excuse for late or absent assignments. You are responsible for making sure your assignments, including attachments, are received before the deadline. If you have technical difficulties, please contact campus helpdesk (801-581-4000 option 1, helpdesk@utah.edu) or Uonline helpdesk (801-581-6112, classhelp@utah.edu).