

Syllabus Handout and Deadlines

Elementary Statistical Methods, STAT 301, Spring 2010

- Instructor:** Jon Kuhn, Ph.D., 309 Schwarz Hall
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 (toll free inside Indiana) (long distance charges, if necessary)
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 (800) 872-1231 (ext 5598 and 5563#) (219) 785-5598 (then 5563#) voice mail
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- Dept Office:** 120 Schwarz Hall, same telephone numbers as above, then extension 5298#
<http://www.pnc.edu/depts/mp>
- Class Times:** MW 2:30-3:45PM (02), 4:00–5:15pm, (03); TR 3:30-4:45pm, (04); and online (06)
- Office Hours:** W 1:00-2:00pm, R 2:00-3:00pm 309 Schwarz, other times by appointment
- Texts:** (required) *Statistics: Informed Decisions Using Data (bundled with CourseCompass)*, (3rd Ed) Sullivan, 2010
 (required) *Attendance Workbook For Statistics 301*, Kuhn, Spring 2010 (on my PNC web page)
 (optional) *TI-83 Plus, TI-84 Plus and TI-89 Manual* (for Sullivan text)
- Calculator:** TI-84+ (TI-Nspire, TI-84+ SE, TI-83+, TI-83+ SE) calculator is required
- Course web sites:** <http://www.faculty.edu/jkuhn> then follow links (“attendance” lecture notes and syllabus)
<http://www.coursecompass.com> (online assignments, registering requires both CourseCompass and text access codes)
<https://epm.itap.purdue.edu/webct/entryPageIns.dowebct>, then “North Central Academic Campus” (weekly scores)
- Objectives:** General objectives include developing basic conceptual understanding of core ideas of statistics and hands-on experience with basic calculator and/or computer skills. Specific objectives include:
- (a) understanding sampling techniques,
 - (b) arranging and interpreting tables and graphs of data,
 - (c) understanding various descriptive statistics,
 - (d) exploring elementary probability and probability distributions problems,
 - (e) solving hypothesis tests and statistical estimation,
 - (f) analyzing linear correlation and least squares lines,
 - (g) introducing experimental design techniques.
- Points:**
- | | |
|---------------------------------|------------|
| Homeworks (7 at 50 points each) | 350 points |
| Quizzes (6 at 50 points each) | 300 points |
| Final (common to all sections) | 250 points |
| Attendance | 50 points |
- Grades Scales:**
- | | highest of | I | or | II |
|----------|------------|---------------|----|-----------|
| <i>A</i> | | 900 and above | | top 15% |
| <i>B</i> | | 800 to 899 | | next 35% |
| <i>C</i> | | 700 to 799 | | next 40% |
| <i>D</i> | | 600 to 699 | | next 5% |
| <i>F</i> | | below 600 | | bottom 5% |
- Grading Policies:** Late homeworks assignments are not accepted. There are no make-up quizzes or final exam. Writing the final is required: failure to write is an automatic F grade. No points are taken off for first three absences; 5 points taken off per absence thereafter. If you are sick, you have permission to stay home and are not penalized for missing class.
- Accommodations:** If you have any kind of disability or situation that will require any type of accommodation either in the classroom or in testing, please see the instructor immediately after class. You must also consult with the Disability Services Coordinator (extension 5374) to provide appropriate documentation before accommodations can be provided.
- Emergencies:** In the event of a major campus emergency, course requirements, deadlines and grading percentages are subject to changes that may be necessitated by a revised semester calendar or other circumstances. Here are ways to get information about changes in this course: Blackboard Vista web page, my email address: jkuhn@pnc.edu, and my office phone: 219-785-5563. If the campus is without power for an extended period, and there is no access to Blackboard, e-mail or phones, PNC’s emergency text message system will be utilized.

Homework Assignment and Quiz Deadlines:

W	M-F	Att	Homeworks and Quizzes, Thursday due dates
1	J11-J15	A1	<i>lectures, but no quiz or homework assignments due this first week</i>
2	J18-J22 <i>no class J18</i>	A2	H1 (A1) January 21st
3	J25-J29	A3	Q1 (A2) January 28th
4	F1-F5	A4	H2 (A3) February 4th
5	F8-F12	A5	Q2 (A4) February 11th
6	F15-F19	A6	H3 (A5) February 18th
7	F22-F26	A7	Q3 (A6) <i>supervised quiz 3</i> 02: Wednesday, February 24th, 2:30pm-3:45pm 03: Wednesday, February 24th, 4:00pm-5:15pm 04: Thursday, February 25th, 3:30pm-4:45pm
8	M1-M5	A8	H4 (A7) March 4th
9	M8-M12 <i>no classes M8-M12</i>		
10	M15-M19	A9	Q4 (A8) March 18th
11	M22-M26	A10	H5 (A9) March 25th
12	M29-A2	A11	Q5 (A10) April 1st
13	A5-A9	A12	H6 (A11) April 8th
14	A12-A16	A13	Q6 (A12) <i>supervised quiz 6</i> 02: Wednesday, April 14th, 2:30pm-3:45pm 03: Wednesday, April 14th, 4:00pm-5:15pm 04: Thursday, April 15th, 3:30pm-4:45pm
15	A19-A23	A14	H7 (A13) April 22nd
16	A26-A30		<i>review week</i>
17	M3-M7		<i>supervised final</i> times posted on PNC website

As an example to understand this table: In Week 8, which takes place between Monday, March 1st, to Friday, March 5th, the 8th Attendance assignment is covered in class and the 4th homework assignment (based on material in Attendance 7) is to be submitted before midnight Thursday, March 4th.

Chapters Covered in Text:

Week(s)	Chapter(s)	Description
1	1	data collection
2	2	descriptive statistics: graphs
3	3	descriptive statistics: central tendency, dispersion
4	4	descriptive statistics: regression, correlation, contingency tables
5	5	probability: elementary rules, counting techniques
6	6	probability: binomial, geometric and Poisson distributions
7	7	probability: normal
8	8	probability: sampling distributions
9	9	statistical inference: estimation one sample
10	10	statistical inference: hypothesis tests one sample
11	11	statistical inference: estimation, hypothesis tests two samples
12	12	statistical inference: categorical data
13	13	statistical inference: ANOVA
14	14	statistical inference: linear regression