



EXTENDED CAMPUS

COLLEGE of PROFESSIONAL
and CONTINUING STUDIES

PSC 5913-492: Introduction to Analysis of Political and Administrative Data

Course Description:

This course is a graduate-level introduction to statistical analysis of political and administrative data. The central focus is descriptive, explanatory, and inferential statistics as they are used to address problems of public management and public affairs. The course is oriented toward utilization of quantitative procedures and interpretation of results, rather than to theoretical issues. The course is conducted entirely online.

Course Dates:

January 6 – February 2, 2020

Last day to enroll or drop without penalty: December 8, 2019

Site Director:

This is a three-credit hour online course. Please see your local Site Director or email our online site coordinator at aponline@ou.edu

Professor Contact Information:

Course Professor: B. Mitchell Peck, PhD
Mailing Address: 780 Van Vleet Oval
Department of Sociology
University of Oklahoma
Norman, OK 73019

Telephone Number: (405) 325-1751

E-mail Address: bmpeck@ou.edu

Professor availability: The professor will be available via e-mail to students during the class dates.

Textbook(s) and Instructional Materials:

Student materials are available at the OU Bookstore Website at <https://ou.textbookx.com/institutional/index.php>. There is no longer a physical bookstore, the store will remain, but textbooks will not be stocked. The website has book selling, renting, buying, returning, and order tracking capabilities. If you need help with an order, or if you have any questions contact the toll-free phone at 1-(855)-790-6637, agents are available from 9a – 5p (EST) Monday – Friday. For more information or questions about textbooks, feel free to contact apsyllabi@ou.edu. Text prices are available online

1. Leon-Guerro, A. & Frankfort-Nachmias, C. (2017). *Essentials of social statistics for a diverse society* (3rd ed.). Thousand Oaks, CA: Sage. ISBN 9781506390826.
2. Materials posted on the OU Canvas learning management system: Access Canvas at <https://canvas.ou.edu>, enter your OU NetID and password, and select course to access material. If you require assistance with Canvas, please click on the Help icon. You can search the Canvas guides, chat with Canvas support, or contact OU IT.

OU Email:

All official correspondence from instructors will be sent only to students' ou.edu address.

Online Orientation:

The College of Arts and Sciences offers an online orientation for students who are enrolled in online or blended courses. The purpose of the orientation is to ensure that students are well prepared both technically and practically to take online courses. The orientation can be found on their website at: <http://www.ou.edu/content/cas/online/student-online-orientation.html>

The College of Arts and Sciences Online and Academic Technology Services office is here to assist you with any questions, problems, or concerns you may have. For assistance visit their website at <http://www.ou.edu/content/cas/online/student-information.html> or contact them by telephone at: (405) 325-5854 or email: casonline@ou.edu

Course Objectives:

This is an applied course on statistical analysis. Much of the in-class time will be spent solving problems relative to issues of public management and public affairs. Upon completion of the course, students should be able to:

1. understand statistical terminology;
2. understand the logic behind, and the interpretation of, the statistics discussed in class;
3. calculate and interpret commonly used statistics; and
4. use quantitative information in an informed manner, e.g., read the literature in the field or communicate with quantitative researchers.

Course Outline:**Section 1: Overview and Foundations (January 6 – January 12, 2020)**

Topic 1 – The Research Process

Reading: Babbie Online, Chapter 1 and Chapter 2 and Online Lecture Notes

Exercise: Online

Topic 2 – Math Review

Reading: Online Lecture Notes

Exercise: Online

Topic 3 – The What and Why of Statistics

Reading: Text, Chapter 1 and Online Lecture Notes

Exercise: Online

Section 1 – Exam

Available: Friday, January 10, 2020, 8:00am (central time)

Due: Sunday January 12, 2020, 5:00pm (central time)

Section 2: Descriptive Statistics (January 13 – January 19, 2020)

Topic 1 – Frequencies

Reading: Text, Chapter 2, pp. 25 – 38 and Online Lecture Notes

Exercise: Online

Topic 2 – Graphical Representations

Reading: Text, Chapter 2, pp. 42 – 56 and Online Lecture Notes

Exercise: Online

Topic 3 – Central Tendency

Reading: Text, Chapter 3 and Online Lecture Notes

Exercise: Online

Topic 4 – Variability

Reading: Text, Chapter 4 and Online Lecture Notes

Exercise: Online

Section 2 – Exam

Available: Friday, January 17, 2020, 8:00am (central time)

Due: Sunday, January 19, 2020, 5:00pm (central time)

Section 3: Bivariate Statistics/Measures of Association (January 20 – January 26, 2020)

Topic 1 – Two-way Frequency (bivariate) Tables

Reading: Text, Chapter 2, pp. 38 – 42 and Online Lecture Notes

Exercise: Online

Topic 2 – Measures of Association for Nominal Variables (λ)

Reading: Text, Chapter 9, pp. 250 – 255 and Online Lecture Notes

Exercise: Online

Topic 3 – Measures of Association for Ordinal Variables (γ)

Reading: Text, Chapter 9, pp. 256 - 257 and Online Lecture Notes

Exercise: Online

Topic 4 – Measures of Association for Interval-Ratio Variables (correlation/regression)

Reading: Text, Chapter 11 and Online Lecture Notes

Exercise: Online

Section 3 – Exam

Available: Friday, January 24, 2020, 8:00am (central time)

Due: Sunday, January 26, 2020, 5:00pm (central time)

Section 4: Inferential Statistics (January 27 – February 2, 2020)

Topic 1 – The Normal Distribution

Reading: Text, Chapter 5 and Online Lecture Notes

Exercise: Online

Topic 2 – Sampling and Sampling Distributions

Reading: Text, Chapter 6 and Online Lecture Notes

Exercise: Online

Topic 3 – Estimation (Confidence Intervals)

Reading: Text, Chapter 7 and Online Lecture Notes

Exercise: Online

Topic 4 – Hypothesis Testing (t-test)

Reading: Text, Chapter 8 and Online Lecture Notes

Exercise: Online

Section 4 – Exam

Available: Friday, January 31, 2020, 8:00am (central time)

Due: Sunday, February 2, 2020, 5:00pm (central time)

Assignments, Grading, and Due Dates:

The course is divided into 4 main sections: (1) overview and foundations, (2) descriptive statistics, (3) bivariate statistics, and (4) inferential statistics. Each section is one week long.

Grades are based on four exams, one for each section. Each exam is worth 25% of the final grade. The exams are not cumulative *per se*, though the material in each section requires students to know the material from the previous sections. The exams will have multiple question types, including multiple choice, true/false and short answer questions, as well as hand calculation problems. Exams are open-book—students may use notes, handouts, books, or other materials. Students may **not** work with anyone else to complete the exams. Students must have a simple calculator to complete the exams.

The exams will be available at 8:00am (central time) on each Friday during the course. The exams are due online by 5:00pm (central time). Students must scan and submit the exams to the assignment dropbox on Canvas. Students must show and submit all calculations and other work.

Course Structure and Conduct:

The course is divided into 4 main sections (see above). Within each section, there are several topics. For each topic, there are assigned readings, course notes in the form of PowerPoint slides, video lectures, exercises, and exercise answer keys. The assigned readings consist of the textbook and online readings (posted on Canvas). The exercises and exercise answer keys are posted on Canvas.

Students will read the assigned readings and course notes, complete the exercises and check answers with the answer keys. The exercises are not graded or submitted. The exercises are practice and preparation for the exams. At the end of each section, students will download the exam for that section, complete the exam, scan the exam, and submit the exam to the dropbox in Canvas.

The instructor will hold optional online video conferencing question and answer sessions via the Zoom conferencing platform. For more information see the Zoom website (<https://zoom.us/>) or the OU website (<http://www.ou.edu/cas/online/academic-technology/zoom-video-conferencing>).

Policy for Late Work:

Please contact the professor regarding his/her policy for late work

Attendance Policy:

In addition to interaction via Canvas and email contact, students are required to contact the instructor via email or telephone **before** the beginning of the course term for an initial briefing. Although physical class meetings are not part of this course, participation in all interactive, learning activities is required.

Student assignments and student/instructor communications will be conducted via Canvas, although students may contact the instructor via telephone, postal mail, email, or fax as needed

Incomplete Grade Policy:

A grade of "I" is not automatically assigned, but rather must be requested by the student by submitting to the instructor a "Petition for and Work to Remove an Incompleted Grade" form. An "I" can never be used in lieu of an "F" nor can an "I" be assigned because of excessive failure to participate in class activities.

Technical Support Information:

If you experience technical problems, contact Information Technology by visiting their website at: <http://webapps.ou.edu/it/> or contacting them by telephone at: (405) 325-HELP (4357).

POLICIES AND NOTICES

Attendance/Grade Policy

Note: Attendance/absences do not apply to online courses. However, participation in all course activities is extremely important to student success in online courses.

Excused absences are given for professor mandated activities or legally required activities such as emergencies or military assignments. It is the policy of the University to excuse absences of students that result from religious observances and to provide without penalty for the rescheduling of examinations and additional required class work that may fall on religious holidays. Unavoidable personal emergencies, including (but not limited to) serious illness; delays in getting to class because of accidents, etc.; deaths and funerals, and hazardous road conditions will be excused.

If you are obtaining financial assistance (TA, STAP, FA, VA, Scholarship, etc.) to pay all or part of your tuition cost, you must follow your funding agency/institution's policy regarding "I" (Incomplete) grades unless the timeline is longer than what the University policy allows then you must adhere to the University policy. Students who receive Financial Aid must resolve/complete any "I" (Incomplete) grades by the end of the term or he/she may be placed on "financial aid probation." If the "I" grade is not resolved/completed by the end of the following term, the student's Financial Aid may be suspended making the student ineligible for further Financial Aid.

Students are responsible for meeting the guidelines of Tuition Assistance and Veterans Assistance. See the education counselor at your local education center for a complete description of your TA or VA requirements.

Academic Integrity and Student Conduct

Academic integrity means honesty and responsibility in scholarship. Academic assignments exist to help students learn; grades exist to show how fully this goal is attained. Therefore all work and all grades should result from the student's own understanding and effort.

Academic misconduct is any act which improperly affects the evaluation of a student's academic performance or achievement. Misconduct occurs when the student either knows or reasonably should know that the act constitutes misconduct. Academic misconduct includes: cheating and using unauthorized materials on examinations and other assignments; improper collaboration, submitting the same assignment for different classes (self-plagiarism); fabrication, forgery, alteration of documents, lying, etc...in order to obtain an academic advantage; assisting others in academic misconduct; attempting to commit academic misconduct; destruction of property, hacking, etc...; intimidation and interference with integrity process; and plagiarism. All students should review the Student's Guide to Academic Integrity at http://integrity.ou.edu/students_guide.html

Students and faculty each have responsibility for maintaining an appropriate learning environment. All students should review policies regarding student conduct at <http://studentconduct.ou.edu/>

Accommodation Statement

The University of Oklahoma is committed to making its activities as accessible as possible. For accommodations on the basis of disability, please contact your local OU Site Director.

Adjustment for Pregnancy/Childbirth-Related Issues

Should you need modifications or adjustments to your course requirements because of documented pregnancy-related or childbirth-related issues, please contact me as soon as possible to discuss. Generally, modifications will be made where medically necessary and similar in scope to accommodations based on temporary disability. Please see <http://www.ou.edu/content/eoo/faqs/pregnancy-faqs.html>.

Title IX Resources

For any concerns regarding gender-based discrimination, sexual harassment, sexual misconduct, stalking, or intimate partner violence, the University offers a variety of resources, including advocates on-call 24/7, counseling services, mutual no-contact orders, scheduling adjustments, and disciplinary sanctions against the perpetrator. Please contact the Sexual Misconduct Office at smo@ou.edu or (405) 325-2215 (8-5), or the Sexual Assault Response Team at (405) 615 -0013 (24/7) to report an incident. To learn more about Title IX, please visit the Institutional Equity Office's website at <http://www.ou.edu/content/eoo.html>

Course Policies

Advanced Programs policy is to order books in paperback if available. Courses, dates, and professors are subject to change. Please check with your OU Site Director. Students should retain a copy of any assignments that are mailed to the professor for the course.

Any and all course materials, syllabus, lessons, lectures, etc. are the property of professor teaching the course and the Board of Regents of the University of Oklahoma and are protected under applicable copyright.

For more information about Advanced Programs, visit our website at: <http://www.goou.ou.edu/>

INSTRUCTOR VITA

B. Mitchell Peck

Education

- Ph.D. Sociology, Texas A&M University, College Station, Texas, 2002
- M.S. Sociology, Texas A&M University, College Station, Texas, 1990
- B.A. Sociology, Idaho State University, Pocatello, Idaho, 1987

Current Positions

- 2013-present Associate Professor, Department of Sociology, University of Oklahoma, Norman, Oklahoma
- 2005-present Adjunct Assistant Professor, Department of Health Administration and Policy, College of Public Health, University of Oklahoma Health Sciences Center, Oklahoma City, Oklahoma

Frequently Taught Advanced Programs Courses

- PSC5913 – Introduction to Analysis of Political and Administrative Data
- PSC5143 – Program Evaluation

Major Areas of Teaching and Research Interest

- Teaching – Statistics, Research Methods, Inequality, Health and Medical Issues
- Research Interests – Health and Medicine, Public Policy

Representative Publications and Presentations

- Miller, Leslie A. and B. Mitchell Peck. 2019. Peoples' experiences with pouches (PEWP) study: Ostomate-provider interactions. *Journal of Patient Experience* (forthcoming).
- Jones, Melissa S., B. Mitchell Peck, Susan F. Sharp, and David A. McLeod. 2019. Childhood adversity and intimate partner violence: The mediating influence of PTSD in a sample of women prisoners. *Journal of Interpersonal Violence* (forthcoming).
- Peck, B. Mitchell, Erin M. Davis, Jennifer David Peck, and Howard B. Kaplan. 2015. Associations between early alcohol and tobacco use and prolonged time to puberty in males. *Child: Care, Health & Development* 41(3):337-503.
- Peck, B. Mitchell and Meredith Denney. 2012. Disparities in the conduct of the medical encounter: The effects of physician and patient race and gender. *Sage Open* 2(3):1-14.
- Sharp, Susan, B. Mitchell Peck, and Jennifer Hartsfield. 2012. Adverse childhood experiences and substance abuse among women prisoners: A general strain theory approach. *Journal of Criminal Justice* 40(3):202-211.
- Clark, Rob and B. Mitchell Peck. 2012. Examining the gender gap in life expectancy: A cross-national analysis, 1985 – 2005. *Social Science Quarterly* 93(3):820-837.
- Peck, B. Mitchell and Sonya Conner. 2011. Talking with me or talking at me? The impact of status characteristics on doctor-patient interaction. *Sociological Perspectives* 54(4):547-567.
- Peck, B. Mitchell. 2011. Age-related differences in doctor-patient interaction and patient satisfaction. *Current Gerontology and Geriatrics Research* 11(1):1-10.
- Peck, B. Mitchell, Paul R. Ketchum, and David G. Embrick. 2011. Racism and sexism in the gaming world: Reinforcing or changing stereotypes in marketed computer games? *Journal of Media and Communication Studies* 3(6):212-220.
- Peck, Jennifer David, B. Mitchell Peck, Valerie J. Skaggs, Miyuki Fukushima, and Howard B. Kaplan. 2011. Socio-environmental factors associated with puberty development in females: The role of prepubertal tobacco and alcohol use. *Journal of Adolescent Health* 48(3):241-246.
- Peck, B. Mitchell, Margo-Lea Hurwicz, Marcia Ory, Paula Yuma, and Mary Ann Cook. 2010. Race, gender, and lifestyle discussions in geriatric primary care medical visits. *Health* 2(10):1150-1155.