The University of Oklahoma
College of Continuing Education
Advanced Programs – Course Syllabus

Course Title:
Statistics for Decision Making

Course Number:
ECON 5023-104

Course Description:
The course is designed to give the student a working knowledge of the statistical techniques used to solve practical problems in economics and business. While the statistical theory will be covered, the practical application of this theory will be stressed by way of examples drawn from various fields in economics.

Class Dates, Location and Hours:

Dates: November 16-22, 2015
Hours: Mon-Fri 6:00 p.m.-9:30 p.m.; Sat 8:00 a.m.-4:30 p.m.; Sun 8:00 a.m.-12:00 p.m.
Last day to enroll or drop without penalty: October 18, 2015

Site Director:
Christopher Della Valle. Assistant: Sasha Ramdeen. 2189 Crystal Plaza Arcade, Arlington, VA, 22202. Phone: 703-418-4800; Fax: 703-418-2730; E-mail: apwashington@ou.edu

Professor Contact Information:

Course Professor: Alexander B. Holmes, Ph.D.
Mailing Address: University of Oklahoma
               Economics Department
               308 Cate Center Drive
               Room 158, CCD 1
               Norman, OK  73019
Telephone Number: (405) 325-2861
Fax Number: (405) 325-5842
Email Address: aholmes@ou.edu

Professor availability: The professor will be available via e-mail to students before and after the class sessions. On-site office hours are half an hour before and after each class session, by appointment.

Textbook(s) and Instructional Materials:


2. This course will include the use of videos, please log on to https://janux.ou.edu/app/ and sign in using your OUNetID and password. Select Elementary Business Statistics by Dr. Alexander Holmes.

3. Materials posted on the Electronic Reserve system: Access the OU Electronic Reserves Page at http://libraries.ou.edu/eresources/reserves/; enter OU NetID and password, and select course and access material. Please contact your local Site Director if you require assistance.
Course Objectives:
Upon completion of the course, students should have a working knowledge of a variety of probability density functions including binomial and the normal. They will have developed the ability to create confidence intervals for estimating the mean and proportion of an unknown population distribution. Students will be able to formulate hypotheses concerning the mean and differences in variances. Students will understand the theory underlying linear regression techniques and be able to interpret the results of a linear regression analysis.

Course Outline:
I. Descriptive Statistics, Basic Probability and Probability Distribution, Chapters 1-6
II. Central Limit Theorem, Point and Interval Estimation, Chapters 7-8
III. Hypothesis Testing, Chapter 9
IV. More Hypothesis Testing, Chapter 10
V. Even More Hypothesis Testing, Chapter 11
VI. Simple and Multiple Regression and Correlation, Chapters 13

Assignments, Grading and Due Dates:

Non – Graded Problem Set:
Non-graded problem set (on OU electronic reserve) due prior to 1st Session

Final Examination:
Last class session

Post Seminar Assignment:
For more intensive study, students may select one or two topics from the following fields: Probability Theory, Sampling, Econometric Method, and Business Forecasting. Readings will be assigned to students based on their previous educational background. Topics and due date will be announced during the seminar itself. Written reports will be mailed to the professor at the address on page one of this syllabus.

Grading:
This is a letter-graded course: A, B, C, D, or F.

<table>
<thead>
<tr>
<th>Assignment</th>
<th>Due Date</th>
<th>Percent of Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Problem Set on Electronic Reserve</td>
<td>Prior to 1st class session</td>
<td>Required</td>
</tr>
<tr>
<td>Final Examination</td>
<td>Last class session</td>
<td>85 %</td>
</tr>
<tr>
<td>Post Seminar Assignment</td>
<td>December 13, 2015</td>
<td>15 %</td>
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</table>

Notice: Failure to meet assignment due dates could result in a grade of I (Incomplete) and may adversely impact Tuition Assistance and/or Financial Aid.
POLICIES AND NOTICES

Attendance/Grade Policy

Attendance and participation in interaction, individual assignments, group exercises, simulations, role playing, etc. are valuable aspects of any course because much of the learning comes from discussions in class with other students. It is expected that you attend all classes and be on time except for excused emergencies.

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 make 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.

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. Advanced Programs does not provide duplicating services or office supplies.

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
Alexander Holmes, Ph.D.

Education
1970 Ph.D. in Economics, SUNY/Binghamton

Current Positions
• Advanced Programs Professor since 1974
• Regents Professor of Economics, University of Oklahoma

Frequently Taught Advanced Programs Courses
• ECON 5453 Urban Economics
• ECON 5023 Statistics for Decision-Making

Major Areas of Teaching and Research Interest
• Microeconomic Principles
• Statistics
• Applied Public Policy Research

Representative Publications and Presentations
• “Union activity and teacher salary structure,” Industrial Relations, 18, No. 1, (February, 1979), pp. 79-85.
• Ethics in higher education: Case studies for regents, University of Oklahoma Press, 1996.

Representative Honors and Awards Received
UOSA Professor of the Year, 1997