University of North Texas at Dallas
Fall 2019
SYLLABUS

CJUS 3350: Criminal Justice Statistics   3Hrs

Department of	Criminal Justice		School of	Liberal Arts and Sciences

Instructor Name:	*Dr. Aaron Bartula*
Office Location:	*DAL 2 #320*
Office Phone:	*972-780-3629*
Email Address:	*Aaron.Bartula@untdallas.edu*

Office Hours:	**M 9:00am-11:00m; T 9:00am-10:00am; W 9:00am-11:00am; TH 9:00am-10:00am**
Virtual Office Hours:	**T 12:00:-2:00pm** *or Anytime via email, usually will respond within 24 hours except for weekends and/or holidays.*

Classroom Location:	*DAL 2 #213*
Class Meeting Days & Times:	**TR 10:00am-11:20am**

Course Catalog Description:	Examines the application and importance of statistics and analysis in the field criminal justice. Special emphasis on descriptive statistics, elements of probability, random variables, confidence intervals, hypothesis testing, and regression..

Prerequisites:	**CJUS 2100 and either MATH 1581, MATH 1100 or DSCI 2710.**
Co-requisites:	None required, although an understanding of college algebra is essential

Required Text:	**Levin, J., Fox, J.A., & Forde, D.R. (2014). *Elementary Statistics in Social Research*, 12th edition, Allyn, Bacon, & Longman., Fox.** **ISBN: 0134238784 or** **ISBN: 0134238788 (Access Card)**

Recommended Text and References:	This is an intensive course. Students in this class are highly encouraged to acquire a calculator with basic algebraic functions.

Access to Learning Resources:	UNT Dallas Library:
	  phone: (972) 780-3625;
	  web: http://www.unt.edu/unt-dallas/library.htm
	UNT Dallas Bookstore:
	  phone: (972) 780-3652;
	  e-mail: 1012mgr@fheg.follett.com

Course Goals or Overview:

	The goal of this course is to introduce quantitative analysis techniques and how they are applied in social science research.

Learning Objectives/Outcomes: At the end of this course, the student will

1	Be able to explain and differentiate the concepts of sample and population.
2	Understand and apply concepts of probability.
3	Formulate hypotheses that require the use of quantitative research methodology.
4	Identify the appropriate quantitative tools based on the research question.
5	Demonstrate the ability to apply statistical models to real world research questions.
6	Demonstrate the ability to compute and interpret statistical data in context.
7	Demonstrate the ability to connect statistical findings to population and draw inference.

Course Outline

This schedule is subject to change by the instructor. Any changes to this schedule will be communicated by the instructor in class.

TIMELINE	TOPICS	Related SLO's	Readings/Activities/Assignments/Problem Sets
8/27/2019	Syllabus	1a, 1b	
8/29/2019	Introduction; Choosing the right program for you	1a, 1b, 1c, 1d	**Readings**: pgs. 1-25 **Problems**: pgs. 25-29
9/2/2019	*LABOR DAY NO CLASS!!!*		
9/3/2019	Ch. 1: Why We Use Statistics; **Writing Center Workshop**	1a, 1b, 1c, 1d	
9/5/2019	Ch.2: Organizing the Data	1a, 1b, 1c, 1d, 4a, 4b	**Readings**: pgs. 33-72 **Problems**: pgs. 72-79
9/10/2019	Ch.2: Organizing the Data; **Last Day to Drop Without a Penalty**		
9/12/2019	Ch.3: Measures of Central Tendency	1a, 1b, 1c, 1d	**Readings**: pgs. 81-96 **Problems**: pgs. 96-101
9/17/2019	Ch.3: Measures of Central Tendency	1a, 1b, 1c, 1d	
9/19/2019	Ch.4: Measures of Variability; **Quiz 1**	1a, 1b, 1c, 1d, 4a	**Readings**: pgs. 104-125 **Problems**: pgs. 125-130 1. **Quiz 1**
9/24/2019	Ch.4: Measures of Variability; **Excel Activity 1**	1a, 1b, 1c, 1d, 4a, 4b, 4c, 4e, 6d, 7d	1. **Excel Activity 1**
9/26/2019	**Exam 1**	**1a, 1b, 1c, 1d**	1. **Exam 1**
10/1/2019	Ch.5: Probability and the Normal Curve	1a, 1b, 1c, 1d	**Readings**: pgs. 135-164 **Problems**: pgs. 165-171
10/3/2019	Ch.5: Probability and the Normal Curve	1a, 1b, 1c, 1d	
10/8/2019	Ch.6: Samples and Populations	1a, 1b, 1c, 1d	**Readings**: pgs. 173-209 **Problems**: pgs. 209-213
10/10/2019	Ch.6: Samples and Populations; **Quiz 2**	1a, 1b, 1c, 1d	1. **Quiz 2**
10/15/2019	Ch.7: Testing Differences Between Means;	1a, 1b, 1c, 1d	**Readings**: pgs. 217-262 **Problems**: pgs. 262-274
10/17/2019	Ch.7: Testing Differences Between Means; **Excel Activity 2**	1a, 1b, 1c, 1d	1. **Excel Activity 2**
10/22/2019	**Exam 2**	**1a, 1b, 1c, 1d, 4a, 4b, 4c, 4e, 6d, 7d**	1. **Exam 2**
10/24/2019	Ch.8: Analysis of Variance (ANOVA)	1a, 1b, 1c, 1d	**Readings**: pgs. 276-308 **Problems:** pgs. 308-316
10/29/2019	Ch.8: Analysis of Variance (ANOVA)	1a, 1b, 1c, 1d	
10/31/2019	Ch.9: Non-Parametric Tests	1a, 1b, 1c, 1d	**Readings**: pgs. 319-349 **Problems**: pgs. 349-360
11/5/2019	Ch.9: Non-Parametric Tests; **Quiz 3**	1a, 1b, 1c, 1d	1. **Quiz 3**
11/7/2019	Ch.10: Correlation	1a, 1b, 1c, 1d	**Readings**: pgs. 365-389 **Problems**: pgs. 389-398
11/8/2019	**Last Day to Drop with a grade of "W" with instructor approval.**		

11/12/2019	Ch.10: Correlation	1a, 1b, 1c, 1d	
11/14/2019	Ch.11: Regression Analysis (OLS)		
11/19/2019	Ch.11: Regression Analysis (OLS)(cont.)	1a, 1b, 1c, 1d, 4a, 4b, 4c, 4e,	
11/21/2019	Logistic Regression Analysis (LOGIT); **Quiz 4**	1a, 1b, 1c, 1d, 4a,	1. **Quiz 4**
11/26/2019	Ch.12: Nonparametric Measures of Correlation; **Excel Activity 3**	1a, 1b, 1c, 1d, 4a	<u>**Readings**</u>: pgs. 444-464 <u>**Problems:**</u> pgs. 464-473 1. **Excel Activity 3**
11/25/2019- 12/1/2019	**THANKSGIVING BREAK, NO CLASS!!!**		
12/3/2019	Quiz Bowl	1a, 1b, 1c, 1d, 4a, 4b, 4c, 4e, 6d, 7d	
12/5/2019	Closing	1a, 1b, 1c, 1d,	1. **Exam 3**
12/10/2019	**Final Exam**	1a, 1b, 1c, 1d, 4a	1. **Exam 3**

Course Evaluation Methods

This course will utilize the following instruments to determine student grades and proficiency of the learning outcomes for the course.

Exams – *written tests administered in class designed to measure knowledge and application of presented course material.*

Quizzes - *written quizzes administered in class designed to measure knowledge and application of the week's presented material and to adequately prepare the student for upcoming exams.*

Wake-Up Problem Sets - *calculation problems designed to measure application of content given at the first of each scheduled class period.*

Homework Problem Sets – *calculation problems designed to measure application of content that are not for a grade but prepare the student for success in other assignments .*

Excel Activities – *assignments using Microsoft Excel that takes course content and assess application.*

Grading Matrix:

Instrument	Value (points)	Total
Exams	3 exams at 100 points each	300
Wakeup Problem Sets	10 assignments at 5 points each	50
Quizzes	3 quizzes at 25 points each	75
Excel Activities	3 at 100 points each	300
Total:		**725**

Grade Determination:
A = 725 – 652 pts; i.e. 90% or better
B = 651 – 580 pts; i.e. 80 – 89 %
C = 579 – 507 pts; i.e. 70 – 79 %
D = 506 – 435 pts; i.e. 60 – 69 %
F = 509 pts or below; i.e. less than 60%

No discussion about grades/points will be done through the internet or <u>with anyone other than the student</u> (FERPA law). Please make an appointment and I will happily discuss them or other concerns.

University Policies and Procedures

Students with Disabilities (ADA Compliance):
*The University of North Texas Dallas faculty is committed to complying with the Americans with Disabilities Act (ADA). Students' with documented disabilities are responsible for informing faculty of their needs for reasonable accommodations and providing written authorized documentation. Grades assigned before an accommodation is provided will not be changed as accommodations are not retroactive. For more information, you may visit Section 504 Coordinator, Cynthia Suarez, at 972-338-1777 or email **cynthia.suarez@untdallas.edu**.*

Student Evaluation Policy:
The student Course Evaluation is a requirement for all organized classes at UNT Dallas. This short survey will be made available to you at the end of the semester, providing you a chance to comment on how this class is taught. I am very interested in the feedback I get from students, as I work to continually improve my teaching. I consider the Course Evaluations to be an important part of your participation in this class.

Assignment Policy:
Exams - *Three exams will be given over the course of the semester. Each exam will consist of a combination of multiple choice, short answer and calculation questions.*

Problem Sets – *Weekly problem sets both in class and away from class will be assigned. Problem sets will consist of multiple choice, short answer and calculation questions.*

Quizzes – *Four total quizzes will be given over the course of the semester. Each quiz will consist of a combination of multiple choice, short answer and calculation questions.*

Excel Activities- *Three Microsoft Excel assignments are required in this course. Each assignment requires students to use a provided dataset and run required analysis. Students must bring a printed copy of results to turn on the scheduled due dates.*

Exam and Quiz Policy:
*Exams and quizzes should be taken as scheduled. No makeup examinations will be allowed except for documented emergencies (See Student Handbook). **It is your responsibility to contact me during the first two weeks of class if there's anything about which I should know concerning special accommodation for any of the assignments**. I will try to work out a suitable arrangement, but I must know about it during the first two weeks of class. It is also your responsibility to bring me the required documentation(s) or have the responsible parties contact me in a timely manner for any kind of special accommodation for any of the assignments.*

Academic Integrity:
Academic integrity is a hallmark of higher education. You are expected to abide by the University's code of Academic Integrity policy. Any person suspected of academic dishonesty (i.e., cheating or plagiarism) will be handled in accordance with the University's policies and procedures. Refer to the Student Code of Academic Integrity at http://www.unt.edu/unt-dallas/policies/Chapter%2007%20Student%20Affairs,%20Education,%20and%20Funding/7.002%20Code%20of%20Academic_Integrity.pdf for complete provisions of this code.

Bad Weather Policy:
On those days that present severe weather and driving conditions, a decision may be made to close the campus. In case of inclement weather, call UNT Dallas Campuses main voicemail number (972) 780-3600 or search postings on the campus website www.untdallas.edu. Students are encouraged to update their Eagle Alert contact information, so they will receive this information automatically.

Attendance and Participation Policy:
The University attendance policy is in effect for this course. Class attendance and participation is expected because the class is designed as a shared learning experience and because essential information not in the textbook will be discussed in class. Further, in order to receive credit for class discussion the student must be present in class. The dynamic and intensive nature of this course makes it impossible for students to make-up or to receive credit for missed classes. Attendance and participation in all class meetings is essential to the integration of course material and your ability to demonstrate proficiency. It is the student's responsibility to notify the instructor if they are missing class and for what reason. Students are also responsible to make up any work covered in class. It is recommended that each student coordinate with a student colleague to obtain a copy of the class notes, if they are absent.

Diversity/Tolerance Policy:
Students are encouraged to contribute their perspectives and insights to class discussions. However, offensive & inappropriate language (swearing) and remarks offensive to others of particular nationalities, ethnic groups, sexual preferences, religious groups, genders, or other ascribed statuses, will not be tolerated. Disruptions which violate the Code of Student Conduct will be referred to the Office of Student Life as the instructor deems appropriate. This course is designed to be a safe open forum so that we may critically analyze and discuss content. Thus, please adhere to the guidelines outlined in the Code of Student Conduct.

Optional Policies:
- *Use of WebCT/Canvas:* All material will be primarily distributed in class. However, the use of the Canvas site associated with this course may be utilized if necessary.
- *Use of Cell Phones, Laptops, & other Electronic Gadgets in the Classroom:* Please turn all cell phones off/on silent before each class starts. If you need to take an emergency call please excuse yourself from the classroom. Students may use laptops to take notes during class. If students begin to exploit the use of computers I will not allow them. **If a student wants to use a recording device you must get my approval prior to use.**
- *Food & Drink in the Classroom:* Food and drinks are allowed during class, but if they become disruptive to the lecture/discussions, they will be disallowed.
- *Grade of Incomplete, "I":* Though not encouraged, incomplete grades will be granted on a case by case basis. Each student seeking such grade must come speak to me as soon as it is being considered.