

	<b>Course</b>	<b>STAT 6331: Statistical Inference I</b>
	<b>Professor</b>	Pankaj Choudhary
	<b>Term</b>	Fall 2016
	<b>Meetings</b>	TR 4:00-5:15 pm (CB1 1.106)

### Professor's Contact Information

<b>Office Phone</b>	972-883-4436
<b>Office Location</b>	FO 2.408 B
<b>Email Address</b>	<a href="mailto:pankaj@utdallas.edu">pankaj@utdallas.edu</a>
<b>Office Hours</b>	TR 11:30-12:30 pm or by appointment

### General Course Information

<b>Pre-requisites</b>	<ul style="list-style-type: none"> <li>• (STAT 5352 or equivalent) and (MATH 5302 or equivalent).</li> <li>• Read chapters 1-4 of the text (covered by the pre-requisites) to prepare for the class.</li> </ul>
<b>Course Description</b>	Fundamental concepts of statistical inference.
<b>Learning Outcomes</b>	<ul style="list-style-type: none"> <li>• Students will be able to explain the role of sufficiency in statistical inference.</li> <li>• Students will be able to articulate key concepts in Bayesian and frequentist approaches to point and interval estimation, and hypothesis testing.</li> <li>• Students will be able to derive a suitable statistical inference procedure for the given data under appropriate model assumptions.</li> </ul>
<b>Required Text</b>	<i>Statistical Inference</i> , 2 <sup>nd</sup> edition, G. Casella and R. Berger, Duxbury, 2002.
<b>Other information</b>	Use eLearning <a href="http://elearning.utdallas.edu">elearning.utdallas.edu</a> to access homework assignments and their solutions, the solutions of quizzes and exams, and to check your performance.

### Assignments & Academic Calendar

<b>Tentative course schedule</b>	
	Book chapters
Aug 23 – Aug 25	Review
Aug 30 – Sep 20	5-6
Sep 22 – Oct 6	7

Oct 11 – Oct 25	8
Oct 27 – Nov 15	9
Nov 17 – Dec 06	10
<b>Quiz and exam schedule</b>	
Quiz 1 – Sep 08	
Quiz 2 – Sep 22	
Quiz 3 – Oct 06	
Midterm – Oct 20	
Quiz 4 – Nov 03	
Quiz 5 – Nov 15	
Quiz 6 – Dec 01	
Take-home final – Dec 06 Due at 11:00 am on Dec 08.	

### Course Policies

<b>Grading (credit) Criteria</b>	<p>Six 15-minute Quizzes (lowest score will be dropped) = 35%</p> <p>One midterm exam = 25%</p> <p>One take-home comprehensive final exam = 40%</p> <ul style="list-style-type: none"> <li>• Incomplete grade is possible only in the case of a documented serious medical emergency near the end of the semester, with at least 70% of work completed at an on-going passing grade.</li> <li>• Homework will be assigned but will not be collected or graded. Solution will be provided.</li> <li>• No notes allowed for quizzes. One page notes allowed for midterm.</li> </ul>
<b>Make-up Exams</b>	No make-up quizzes and exams. It may be possible take a quiz/exam early.
<b>Extra Credit</b>	No extra credit work will be assigned.
<b>Late Work</b>	No late quizzes and exams.
<b>Class Attendance</b>	Although attendance is not mandatory, you are encouraged not to miss any class as the course will move at a fast pace.
<b>Electronic Devices</b>	No electronic devices during class. For any exception from this rule, ask your instructor for permission.
<b>Comet Creed</b>	<p>This creed was voted on by the UT Dallas student body in 2014. It is a standard that Comets choose to live by and encourage others to do the same:</p> <p>“As a Comet, I pledge honesty, integrity, and service in all that I do.”</p>

<b>Campus carry</b>	The University's concealed handgun policy is posted on the campus carry website: <a href="https://www.utdallas.edu/campuscarry/">https://www.utdallas.edu/campuscarry/</a> .
<b>UT Dallas Syllabus Policies and Procedures</b>	<p>The information contained in the following link constitutes the University's policies and procedures segment of the course syllabus.</p> <p>Please go to <a href="http://go.utdallas.edu/syllabus-policies">http://go.utdallas.edu/syllabus-policies</a> for these policies.</p>

***These descriptions and timelines contained in this syllabus are subject to change at the discretion of the Professor.***