



CROSS-LISTED COURSE OUTLINE

COURSE IMPLEMENTATION DATE:	<u>July 1994</u>
COURSE REVISED IMPLEMENTATION DATE:	<u>January 2013</u>
COURSE TO BE REVIEWED:	<u>September 2018</u>
<i>(six years after UEC approval)</i>	<i>(month, year)</i>

CROSS-LISTED COURSE OUTLINE INFORMATION

This is a cross-listed course. Only one official course outline exists for this course, listed under the original course name and number. Please refer to the official course outline for full course information.

Shaded headings are subject to change at the discretion of the department – see course syllabus available from instructor

<u>MATH 450</u>	<u>SCIENCE/MATHEMATICS & STATISTICS</u>	<u>3</u>
COURSE NAME/NUMBER	FACULTY/DEPARTMENT	UFV CREDITS
Statistical Distribution Theory		
COURSE DESCRIPTIVE TITLE		

OFFICIAL COURSE OUTLINE:

This is a cross-listed course. Please refer to **STAT 450** for the official course outline.

CALENDAR DESCRIPTION:

This is a course in mathematical statistics. It is the continuation of Math 370 in the stream of theoretical statistics, which is designed for students specializing in either mathematics or statistics. Topics include distributions of functions of random variables; transformations of discrete and continuous random variables; beta, t, and F distributions; order statistics; multivariate normal distribution; convergence in distribution and probability; the Law of Large Numbers; the Central Limit Theorem; method of maximum likelihood; confidence intervals; and tests of statistical hypotheses.

Note: This course is offered as STAT 450 and MATH 450. Students may only take one of these for credit.

PREREQUISITES: STAT 370/MATH 370

COREQUISITES:

PRE or COREQUISITES:

SYNONYMOUS COURSE(S):

- (a) Replaces: _____
- (b) Cross-listed with: STAT 450
- (c) Cannot take: STAT 450 for further credit.

SERVICE COURSE TO (department/program):

WILL TRANSFER CREDIT BE REQUESTED? (lower-level courses only)	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No
WILL TRANSFER CREDIT BE REQUESTED? (upper-level requested by department)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
TRANSFER CREDIT EXISTS IN BCCAT TRANSFER GUIDE:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No

Course designer(s): Math and Stats

Department Head: Greg Schlitt Date approved: March 5, 2012

Supporting area consultation (Pre-UEC) Date of meeting: March 30, 2012

Curriculum Committee chair: Norm Taylor Date approved: April 20, 2012

Dean/Associate VP: Ora Steyn Date approved: May 4, 2012

Undergraduate Education Committee (UEC) approval Date of meeting: May 23, 2012