

10-7-2004

## STAT 4631 Course Proposal 10/07/2004

Curriculum Committee

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# Electronic Course Authorization System (ECAS)

## STAT 4631 - VIEW COURSE PROPOSAL - NEW COURSE

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<b>Approvals Received:</b>	<b>Department</b> on 09-17-04 by Carol Ford (fordcj@umn.edu)	<b>Curriculum Committee</b> on 10-07-04 by Karen Van Horn (vanhornk@umn.edu)
<b>Approvals Pending:</b>	<b>Curriculum Committee</b> > Campus Assembly > Catalog	
<b>Effective Status:</b>	Active	
<b>Effective Term:</b>	1059 - Fall 2005	
<b>Course:</b>	STAT 4631	
<b>Institution:</b>	UMNMO - Morris	
<b>Career:</b>	UGRD	
<b>College:</b>	MDSM - UMM-Science & Math, Div of	
<b>Department:</b>	242 - UMM-Sci & Math, Div of-Adm	

### General

<b>Course Title Short:</b>	Experimental Design
<b>Course Title Long:</b>	Design and Analysis of Experiments
<b>Max-Min Credits for Course:</b>	4.0 to 4.0 credit(s)
<b>Catalog Description:</b>	Design and analysis of experimental designs; blocking, randomization, replication and interaction; complete and incomplete block designs; factorial experiments; crossed and nested effects; repeated measures; confounding effects.
<b>Additional Course Information (for catalog production):</b>	<no text provided>
<b>Grading Basis:</b>	Stdnt Opt
<b>Honors Course:</b>	No
<b>Delivery Mode(s):</b>	Classroom
<b>Years most frequently offered:</b>	Other frequency
<b>Term(s) most frequently offered:</b>	Fall, Spring
<b>Component 1:</b>	LEC (with final exam)
<b>Auto-Enroll</b>	No

<b><u>Course:</u></b>	
<b><u>Graded Component:</u></b>	LEC
<b><u>Academic Progress Units:</u></b>	Not allowed to bypass limits. 4.0 credit(s)
<b><u>Financial Aid Progress Units:</u></b>	Not allowed to bypass limits. 4.0 credit(s)
<b><u>Repetition of Course:</u></b>	Repetition not allowed.
<b><u>Course Prerequisites for Catalog:</u></b>	Stat 3601 or #
<b><u>Course Equivalency:</u></b>	No course equivalencies
<b><u>Consent Requirement:</u></b>	No required consent
<b><u>Enforced Prerequisites: (course-based or non-course-based)</u></b>	No prerequisites
<b><u>Editor Comments:</u></b>	<no text provided>
<b><u>Proposal Changes:</u></b>	<no text provided>
<b><u>History Information:</u></b>	<no text provided>
<b><u>Assessment and Goals:</u></b>	Assessment: pre-assessment given early in course consists of conceptual and data analysis questions. Similar constructed post-course assessment will measure course progress Goals: learn statistical benefits of a designed experiment, implications of sample size, difference between crossed and nested factors, concept of interaction, guidelines for choosing approach for experiment
<b><u>Rationale for Changes or Exceptions:</u></b>	COURSE HELPS GIVE OUR CURRICULUM BALANCE IN THAT IT HAS A STRONGER EMPHASIS ON PRODUCTION OF QUALITY DATA THAN OTHER EXISTING COURSES. PROXIMITY TO USDA AND WCROC PROVIDES OPPORTUNITIES FOR PROJECTS AND CASE STUDIES OUTSIDE THE CLASSROOM.

## General Education

<b><u>Faculty Sponsor Name:</u></b>	Jon Anderson
<b><u>Requirement this course fulfills:</u></b>	M/SR - M/SR Mathematical/Symbolic Reasoning
<b><u>Provisional Approval:</u></b>	No
<b><u>Regular Approval:</u></b>	Yes; date: Sept 30, 2004

