

**Dixie State College of Utah**  
**Math 3400-50 Monday 5:15~7:45 PM**  
**NIB 150, 3 Credits, CNR: 24811**

**INSTRUCTOR:** Dr. Clare Banks, [banks@dixie.edu](mailto:banks@dixie.edu) Office: NIB 138 Phone: 652-7982  
Office Hours: M~F 9:00~9:50

**REQUIRED TEXT:** Hogg, R., & Tanis, E.(2010) 8<sup>th</sup> ed. *Probability and Statistical Inference*.  
NJ: Pearson/Prentice Hall

**PREREQUISITES:** C or better in Math 2210.

**CALCULATOR:** A scientific calculator is required. The model TI-83 Plus will be used in class and is highly recommended.

**COURSE WORK:** The student's final grade will be determined by her/his performance on homework, exams, class activities, final project/report, & labs.

- *Homework:* Homework will be assigned and collected regularly. Late homework will not be accepted without a signed medical excuse.
- *Exams:* There will be 5 exams. Each exam will be worth 100 points. No makeup exams will be given except in the case of a documented illness.
- *Attendance/Participation:* Students are expected to be in attendance whenever we meet and actively participate in class discussions. This section also includes in-class activities. Missed in-class work and activities cannot be made up.
- *Final project:* The final project will consist of a write-up and a class presentation. More information to follow.
- *Grading:* Exams – 60%, HW – 20%, Final Project-15%, Attendance/participation – 5%

**GRADES:** Grades will be based on the percentage of total possible points that you earn during the semester. Grades will be assigned as follows:

Percent	Grade	Percent	Grade	Percent	Grade
94-100	A	80-82	B-	60-64	D+
90-93	A-	75-79	C+	55-59	D
87-89	B+	70-74	C	50-54	D
83-86	B	65-69	C-	<50	F

**IMPORTANT DATES:** Please see <http://new.dixie.edu/reg/?page=spring2011> for important dates.

**ACADEMIC DISCIPLINE** If cheating or disruptive behavior occurs the instructor will follow academic discipline procedures 34.1 & 34.2 , as explained at <http://www.dixie.edu/humanres/policy/sec3/334.html>

**DMAIL:** Important class and college information will be sent to your Dmail email account. This information includes your DSC bill, financial aid/scholarship notices, and notification of dropped classes, reminders of important dates and events, and other information critical to your success in this class and at DSC. All DSC students are automatically assigned a Dmail email account. If you don't know your user name and password, go to [www.dixie.edu](http://www.dixie.edu) and select "Dmail," for complete instructions. You will be held responsible for information sent to your Dmail email, so please check it often.

**DISABILITIES:**

If you are a student with a medical, psychological or a learning difference and requesting reasonable academic accommodations due to this disability, you must provide an official request of accommodation to your Professor(s) from the Disability Resource Center within the first two weeks of the beginning of classes. Students are to contact the Center on the main campus to follow through with, and receive assistance in the documentation process to determine the appropriate accommodations related to their disability. You may call (435) 652-7516 for an appointment and further information regarding the Americans with Disabilities Act (ADA) of 1990 per Section 504 of the Rehabilitation Act of 1973.

**OBJECTIVES:**

All classes in mathematics at Dixie College support the general education goals of the college. Each class will:

- Require students to perform mathematical processes including fractions, percentages, decimals, proportions/ratios, algebraic equations and/or calculus techniques.
- Provide students with application problems that use a variety of methods including arithmetical, algebraic and geometric methods.
- Challenge students to make inferences from mathematical models that include formulas, graphs and tables.
- Provide students with real-life applications that use a variety of mathematical functions.

Objectives for Math 3400:

- Students will learn how to collect and analyze data in the presence of uncertainty and variation.
- Students will learn how to interpret probabilities and apply the probability rules to particular events.
- Students will study probability models for a single random variable as well as several random variables.
- Students will be able to use probability results to study sampling distributions.
- Students will master basic estimation techniques.
- Students will be able to use various techniques to make inferences of hypothesis testing.

## Lecture Schedule (Tentative)

1/10	1-1, 1-2	3/21	3-6, 4-1
1/17	No School		EXAM III (Testing Center)
1/24	1-3, 1-4	3/28	4-2, 4-3
1/31	1-5, 1-6, 2-1	4/4	5-1, 5-2, 5-3
	EXAM I (Testing Center)		EXAM IV (Testing Center)
2/7	2-2, 2-3	4/11	5-4, 5-5
2/14	2-4, 2-5	4/18	5-6, 5-7
2/21	No School		EXAM V (Testing Center)
2/28	2-6, 3-1, 3-2		
	EXAM II (Testing Center)	4/25	Presentation
3/7	3-3, 3-4, 3-5	5/2	Final Exam
3/14	No Class		

**The instructor reserves the right to change any of the information on the syllabus.  
Have a great semester!**