INFORMATION SHEET

Course: Math 485  
Spring, 2016

Instructor: Professor Bhaskar Bhattacharya  
Office: Neckers 365  
bhaskar@siu.edu

Office Hours: M W F (2:00 - 3:00)

Text: An Introduction to Categorical Data Analysis, by Alan Agresti, 2nd ed., 2007  
(Wiley, New York)

Prerequisite: Math 483 or consent of instructor

Syllabus: This course covers introduction to categorical data analysis techniques  
including chi-square test of independence, association, generalized linear models, logistic  
regression, multcategory logit models, loglinear models for contingency tables, models  
for matched pairs, modeling correlated responses, random effects in generalized linear  
mixed models.

Homework: Homework will be assigned about a week in advance. It will contain both  
detail work out exercises and computer exercises using data sets. We will use SAS, and R  
as computer software, which will be taught in class. Solutions are posted in D2L after  
they are due.

Exams: Three class tests. All tests are closed book.

Point distributions:

<table>
<thead>
<tr>
<th>Items</th>
<th>point distribution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Homework</td>
<td>100</td>
</tr>
<tr>
<td>Three class tests</td>
<td>300</td>
</tr>
<tr>
<td>Final*</td>
<td>100</td>
</tr>
<tr>
<td>Total</td>
<td>500</td>
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</tbody>
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*(Friday, May 13, 10:15-12:15, EGRA 220)

Grade: Grades are assigned based on the total points accumulated in the course. The  
following approximate scale will be used:

85% or more: A  
75% or more: B  
60% or more: C  
50% or more: D  
less than 50%: F

Withdrawal: The last day to withdraw from the course in Salukinet is Sunday, April  
3, 2016. A student may receive an INC only if two conditions are satisfied, namely, (1)  
the student is passing the course and (2) for reasons beyond his or her control, the student  
is unable to complete all class assignments. See recent Undergraduate/Graduate Catalog  
for details.  
http://pvcaa.siu.edu/_common/documents/syllabusattachments/the-complete-siu-syllabus  
rev10-01-2015.pdf