



NORTHWESTERN
UNIVERSITY

SCHOOL OF
CONTINUING
STUDIES

Handout: Problem Set #6
PREDICT 401: Introduction to Statistical Analysis

1. This problem comes from Sirkin (2005, p. 273). A tolerance index has been developed that is designed to measure one's tolerance of "unpopular" beliefs such as those of a racist or sexist nature. On the scale, 0 means the lowest level of tolerance and 15 the highest level. A random sample of 10 university students (Group 1) is scored along the index. A second sample (Group 2) of students from the same university is a sample of students who had recently attended a workshop on multicultural diversity. Making no directionality assumption in H1, test a null hypothesis that there is no difference in tolerance between the two populations.

Group 1 (control) x1=	Group 2 (workshop) x2=
2	4
3	4
3	4
4	5
4	5
5	6
5	6
5	7
6	7
6	7

2. Use SPSS and the "Employee data" dataset.
 - a. What is the mean salary for minorities and non-minorities?
 - b. What does the ANOVA function here tell us about the relationship between salary and minority status?