The University of Portland
Donald P. Shiley School of Engineering

EGR361
Analysis of Engineering Data

HOMEWORK 7—Inferential Statistics & Hypothesis Testing

Assigned: Tuesday, June 14, 2016
Due: Tuesday, June 21, 2016
Text: 4-1 – 4-4
Final Exam: Wednesday, June 22, 2016 (closed-book, 2 crib-sheets, calculator)

Problems:

1)   43 packages are randomly selected from all packages received by a parcel delivery service. The sample has a mean weight of 12.5 pounds and a standard deviation of 3.6 pounds. What is the 95 percent confidence interval for the true mean weight, µ, of all packages received by the parcel service?
2)   Text 4-37 (a, b)
3)   Text 4-39 (a, d)
4)   Text 4-41 (a); NOTE: Please change "…is at least 2.00 cm." to "…is greater than 2.00 cm."
5)   Text 4-42 (a, b)
6)   Text 4-44
7)   Text 4-45