

CSC 315, Lab 5: Normal Probabilities

The package *swirl* (<http://swirlstats.com>) is an *R* package for learning *R* programming and data science concepts in *R*. An extension package, *swirl-tbp*, has been recently developed to provide students with unlimited practice problems in select topics.

For this assignment, you will use the *swirl-tbp* package to complete practice problems dealing with normally distributed random variables. These practice problems are provided to help you understand this material, but this lab will not be collected.

1. **Install *swirl* and *swirl-tbp*.** Install *swirl* and *swirl-tbp* by following the instructions at: <https://github.com/gdancik/swirl-tbp>
2. **Download the lesson.** From within *R*, type the following to install the lesson.

```
library(swirl)
install_course_github("gdancik", "swirl-tbp", "swirl-tbp_example")
```

If you want additional *R* programming practice, the following lesson is recommended

```
install_course("R_Programming")
```

3. **Complete the lesson.** At the start of a new *R* session, you must
 - a. Load the *swirl* package by running `library(swirl)`
 - b. Source the *swirl-tbp* package as was done in step (1) above
 - c. Type `swirl()` to begin your lesson
 - d. Select the *swirl-tbp* lesson, and then *normal probabilities*
 - e. Questions are randomly generated, so repeat the lesson (or type `rpt()` to repeat a problem) for additional practice!