**CHAPTERS 11 - 12**

Create a list of textbooks, then create an application to add and remove textbooks from that array. Use ArrayList and then use HashMap to do these operations.

1. Create an array of the following data
   * Format: ID, Textbook, Author
   * 1, Introductory Chemical Engineering Thermodynamics, Elliott and Lira
   * 2, Essentials of Chemical Reaction Engineering, Fogler
   * 3, Separation Process Principles, Seader
2. Add a textbook (entered by user) to the array
   * 4, Mass Transfer, Welty
3. Remove any textbook from the array

**CHAPTER 13**

Create an application based off the one made for chapters 11 – 12, that:

1. Counts the length of the textbooks
2. Counts the spaces in textbooks
3. Replaces the spaces in textbooks with dashed “-“
   * Introductory-Chemical-Engineering-Thermodynamics
4. Insert the ID (and space) at the beginning of the textbook name
   * 1. Introductory Chemical Engineering Thermodynamics
5. Pad all entries so strings are the same length (see console on pp. 433 - 434)