MATC 1101  
Analytical Inquiry I  
Assignment Sheet 5

Reading

• Read Chapter 5 of the notes.

• Skim through the handout *Beginning Excel 2002 - Creating & Formating a Basic Spreadsheet*. The important sections are
  - Excel Components.
  - Opening an Existing Workbook.
  - Creating a New Workbook
  - Saving a File.
  - Entering and Editing Text.
  - Undo/Redo Command.
  - Moving Within The Worksheet.
  - Selecting Ranges.
  - Selecting a Row or Column.
  - Widening Columns.
  - Number Formats.
  - Creating a Basic Sum Function.
  - Printing (pages 22-24).

• Skim through the handout *Intermediate Excel 2002 - Creating Formulas and Functions*. The important sections are
  - Formulas
  - Using Autofill.
  - Mathematical Order of Operation.
  - Functions.
  - Common Error Messages.
  - Relative vs. Absolute Cell Referencing.

Exercise 5-1

Create an Excel spreadsheet to compute the area of a rectangle. The spreadsheet should have:

• A cell for the string *length* and a cell to store the length.
• A cell for the string \textit{width} and a cell to store the width.
• A cell for the string \textit{area} and a cell to store the area. The area cell is computed with formula

\[ \textit{area} = \text{length} \cdot \text{width} \]

using the appropriate cell names and symbols.

Show your Excel spreadsheet to Professor Cohen or Norbert Kaula by Thursday, Feb 26.

**Exercise 5-2**

Create an Excel spreadsheet that computes the new principal using quarterly compound interest with

\textit{Initial Principal} = \$1000, \quad \textit{Interest} = 5\%.

The spread sheet should display:

• the initial principal and the interest.
• The interest as a decimal.
• The value of the principal for the years 0, 1, 2, \ldots, 19, 20 in a table with headings \textit{Year} and \textit{Principal}. Format the principal cells as \textit{currency}.

Show your Excel spreadsheet Professor Cohen or Norbert Kaula by Tuesday, March 2.