ENGR 1120 Lecture - Chapter 1 - Introduction

Matlab: A Practical Introduction to Programming and Problem Solving
4th ed. by Stormy Attaway

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- **1.1 - Getting Into MATLAB** (Read this on your own)
- **1.2 - The MATLAB environment** (a.k.a. the I.D.E.)
    - **The Command Window**

    - **The Current Folder**

– **The Workspace**

– **The Status Indicator**

– **The Layout Menu**

- **1.3 - Variables and Assignment Statements**

  – A variable is a container for storing values in the RAM. The value that is stored has a *type* (1.3.3). We will begin with *floating point* values.

$$variable = expression$$

– There are important rules for choosing a variable name (pg. 9)

    * The first character

    * The rest of the characters

    * case matters

    * keywords

    * function names

- # 1.4 - Numerical Expressions

    – We will begin with numerical expressions. This is how we do typical math computations in MATLAB.

    – To do this we need to learn about *operator precedence.*

    $(\quad)$ Parenthesis

    $\wedge$ Exponents

    $-$ Negation

    $* \quad /$ Multiplication and Division

    $+ \quad -$ Addition and Subtraction