Spring 2020

CS 101-012: Computer Programming & Problem Solving

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CS 101
Introduction to Programming for Engineers

Instructor:  Wallace Rutkowski
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Textbook:  MATLAB Programming for Engineers
            Author: Stephen J. Chapman
            Publisher: Thomson
            ISBN-10: 0-495-24449-X

Grading:  There will be a midterm and a final examination. There will be numerous
          programming projects and some online quizzes posted on canvas. Due to the
          coronavirus crisis, the grading scheme will be modified as follows.

          Final grade will be computed as:

          Programs   50%
          Quizzes    20%
          Final (on-line)  30%

Topics:

Part of the course will introduce students to the application of computing in engineering. The
majority of the course will teach the basic concepts of imperative programming using the
MATLAB programming language. The main topics will be:
1. Input/output
2. Translating equations into MATLAB
   arithmetic operators
   calling functions
   plotting
3. Sequence of control flow
4. Selection statements
   relational operators
   logical operators
5. Iteration statements
6. Writing functions
   parameter passing
   local variables
7. Introduction to Python