MISY350 Exam 2 Review

1. **Format:**
   - Closed-book, closed-notes
   - 20 multiple-choice/true-false questions (40%)
   - 10 short answer questions (30%)
   - 2 JavaScript/jQuery/Bootstrap fill-in-the-blanks question (20%)
   - 1 JavaScript/jQuery programming question (10%)
2. **Materials to be tested:**
   - Lecture slides
   - In-class demos
   - Homework assignments
3. **Major Topics**
   1) DOM
      - What is DOM
      - Node relations (parent, child, sibling, ancestor)

   2) JavaScript
      - Differences between JavaScript and Java
      - What JavaScript can do, when to use JavaScript
      - Where to put JavaScript code
      - JavaScript language essentials (variables, dynamic data types, operators, strings, control structures, input and output)
      - JavaScript functions, arrays, events, the window object, and the document object
      - DOM (finding HTML elements and attributes, DOM collections, making changes to HTML elements and styles, adding event handlers)

   3) jQuery
      - What is jQuery and its advantages over JavaScript?
      - How to use jQuery (only those keywords shown in the slides)
        - selectors, filters, actions
        - events
        - manipulating HTML and CSS

   4) Responsive Web Design and Bootstrap
      - What is Responsive Web Design and why it is important
      - Three RWD solutions and their pros and cons
      - Bootstrap: The grid system and how to specify the number of elements per display row with different screen sizes; how to apply the round shape style to images