Goal 3: Students are Effective Users of Information Technology.

Objective 1: Students can acquire information using relevant information technologies.
Objective 2: Students can use information technology to manipulate information into a form usable in business decision making
Objective 3: Students can use information technology to disseminate information to others

Assessment Instrument – Assessment is based on a series of graded IS projects in BCIS 338. The projects require students to use information technology to acquire data in a variety of formats (objective 1), to manipulate acquired data in a variety of manners (objective 2), imbed the transformed data into a written memorandum and export the data in a variety of formats (objective 3).

1. Assessment Project Context: The instructions indicate that the student is a graduate assistant who is charged with pulling together research data from several sources, manipulating the data to facilitate interpreting the research results, and sharing the research data and the student’s interpretation of the research results in the form of a memorandum and exported data files.

2. Objective 1 (Part 1) Components –
   a. Students download four files: 1) an Access database, 2) an Excel starter spreadsheet, 3) a comma-separated-variable data file, and 4) an XML data file.
   b. Students create a query in the Access database which is later imported into the Excel spreadsheet.
   c. Students build a DATA worksheet in the Excel spreadsheet by importing:
      i. Data in a comma-separated-variable data file
      ii. Data from a web page
      iii. Data in an XML data file
      iv. Data from an Access database query
   d. Students create a backup of the DATA worksheet
   e. Students submit for grading the modified Access database and the completed Excel spreadsheet.

3. Objective 2 (Part 2) Components –
   a. Students download an Excel starter spreadsheet that is a completed Part 1 solution with additional worksheets.
   b. Students manipulate the data in the DATA worksheet as described below:
      i. Students create several pivot tables that are used to analyze the research results.
      ii. Students create several pivot charts to graphically illustrate the research results.
      iii. Students create a data table that is used to verify the pivot table results.
      iv. Students submit for grading the modified Excel spreadsheet.

4. Objective 3 (Part 3) Components –
   a. Students download an Excel starter spreadsheet that is a completed Part 2 solution with additional material.
   b. Students create a memorandum describing what they have done and interpreting the research results using the results of the pivot tables and the data table. Students must include a pivot chart and Word table in the memorandum.
   c. Students export the contents of the DATA worksheet to a comma-separated data file and to a web page.
   d. Students submit for grading the completed memorandum and the exported data files.

This is a separate assignment in every course. It is included in the grade in every course.