

R Script to Grade UO Score Answer Form Based on Output from UO_Score_OMR.R

The R script [Grade_UO_Score_OMR.R](#) produces scores and identifies potential student entry issues on the “UO Score Answer Form” based on processing output produced by [UO_Score_OMR.R](#). The script will produce the following output files:

- 1) A single .csv file holding, for each student: 1) last name, 2) UO ID number, 3) exam score, and 4) the page number from the master file holding all scanned exams.
- 2) A single .txt file reporting irregular student responses, including:
 - a. Questions where a student entered no answer
 - b. Questions where a student entered multiple answers.
 - c. The identity of students who did not enter a form number.
 - d. The identity of students who potentially entered the wrong form number.

To use the script, follow these steps:

- 1) Run the “UO_Score_OMR.R” script to produce the .csv file holding the recorded student responses.
- 2) Create a .csv file holding the answer key for the different versions of the exam. The first column should hold question numbers beginning from 1. Each subsequent column should hold solutions based on different exam versions. It is assumed that exam versions are indicated by students on the UO Score Answer Form in Box 5 (“TEST”) with integers starting at 1, and the columns of this file hold the solutions for different versions in numerical order. That is, solutions for exam version “1” should be in column 2, solutions for exam version “2” should be in column 3, etc. If there is only one version of the exam the solutions for this exam should be in column 2. In this case, any student entries on the UO Score answer form in box 5 are ignored.
- 3) Run the script “Grade_UO_Score_OMR.R” (in RStudio, select all text and click “Run”).