`randexam`: Randomized Exam Generation and Grading

User Manual

Version 1.10.0

2014-11-19

1   Recommended procedures

To prepare a "Final" exam, we assume that we are working within a `exam_final` directory.

1.1   Preparing the exams

- Make a directory called `1_exams` and copy in `randexam` and `library.tex`.

- Rename `library.tex` to `final_library.tex` and set the `PREFIX` in `randexam` to `final_`.

- Edit `final_library.tex` to add questions and make the coversheet.

- Run `./randexam proc-lib`.

- Run `pdflatex final_exams.tex`, and look at the output near the end for information about exam lengths.

- Adjust `MINIMUM_EXAM_PAGES` in `randexam` to be the smallest even number that is at least as large as the maximum raw length.

1.2   Administering the exams

- Collect both the Scantron sheets and the exam papers (with names on them) from the students, so that exam papers can be later matched to students if needed.

1.3   Grading the exams

- Make a subdirectory called `2_scantrons` containing a raw unedited copy of the Scantron data files.

- Make a subdirectory called `3_grading` and copy in the contents of both `1_exams` and `2_-scantrons`. All editing should be done in this third directory.

- Run `./randexam proc-scan` and clean up errors in the file as needed.

- Run `./randexam proc-ans`.

- If desired, run `./randexam proc-curve` and adjust the `curve_scores()` function in `randexam` as desired.

- Upload `gradebook.csv` to record the total scores.

- Run `./randexam proc-feedback`.

- If desired, create a `rawscan` directory with PDFs of individual Scantron sheets to be included in email feedback.

- Run `./randexam proc-email`.