# Lab 12: Black Box Test Plan

## Test Overview

To run the tests:

1. Right click on PackSchedulerGUI class in the Package Explorer.
2. Select Run As > Java Application

All tests files should be located in the test-files/ folder.

If you run all tests independently, you can close the GUI between each test. However, the tests are structured so that they may be run in order without shutting down the GUI.

## Test Initialization

Each test should start with the following steps:

1. Log in as a registrar using the id “registrar” and password “Regi5tr@r”
2. Click on Student Directory button
3. Click on Load Student Directory button
4. Load test-files/student\_records.txt. Click Select button.
5. Click Faculty Directory button
6. Click on Load Faculty Directory button
7. Load test-files/faculty\_records\_extended.txt. Click Select button.
8. Click Course Catalog button
9. Click on Load Course Catalog button
10. Load test-files/course\_records.txt. Click Select button.
11. Click on the Faculty Assignment tab
12. Select CSC116 003 and Lina Battestilli and select Remove faculty from course button.
13. Select CSC226 001 and Tiffany Barnes and select remove faculty from course button.
14. Select Sarah Heckman with CSC226 001 selected and then select assign Faculty to course.
15. With Sarah Heckman selected, select CSC116 003 and then select assign Faculty to course.
16. Logout.

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| **Test ID** | **Description** | **Expected Results** | **Actual Results** |
| Test 1: Assign several Courses to an instructor and check that they are all empty | **Preconditions:** Test Initialization steps performed.  Log in as a Sarah Heckman. id: sesmith5 and pw: pw.  Once logged in click Faculty Schedule button.  CHECK RESULTS.  Logout. | Faculty schedule should show 3 courses: CSC216 001, CSC 226 001, & CSC116 003.  The course roll for each course should be empty. |  |
| Test 2: Add student to courses | **Preconditions:** Test 1 complete    Log in as student: lberg pw: pw  Select CSC216 001 from the course catalog and click add course to add it to the student’s schedule.  Select CSC 226 001 from the course catalog and click add course to add it to the student’s schedule.  Logout.  Log in as a Sarah Heckman. id: sesmith5 and pw: pw.  Once logged in click Faculty Schedule button.  Click on each of the courses in the Faculty schedule and check results. | Faculty schedule should show 3 courses: CSC216 001, CSC 226 001, & CSC116 003.  When CSC 116 is selected no students should be in the course roll.  When CSC216 and CSC226 are selected Lane Berg, lberg should be shown for each. No other students should be shown. |  |
| Test 3: Remove course from schedule | **Preconditions:** Test 2 complete  Log in as a registrar using the id “registrar” and password “Regi5tr@r”  Click on the Faculty Assignment tab  Select CSC116 003 and Sarah Heckman and select Remove faculty from course button.  Logout.  Log in as a Sarah Heckman. id: sesmith5 and pw: pw.  Once logged in click Faculty Schedule button.  Click on each of the courses in the Faculty schedule and check results. | Faculty schedule should show 2 courses: CSC216 001 and CSC 226 001  When CSC216 and CSC226 are selected Lane Berg, lberg should be shown for each. No other students should be shown. |  |