

# Lab 05: 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.

Test ID	Description	Expected Results	Actual Results
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T1: Invalid Login	Preconditions: PackSchedulerGUI has loaded  User ID: <b>Iberg</b>  Password: <b>pw</b>  Click <b>Login</b>	Pop up with message "User doesn't exist." User ID and password text fields are cleared.
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The project should have a registrar.properties file that contain values for the following properties:

first= last= id= email=

pw=

The values should be substituted in the tests below as appropriate for the local copy of the registrar.properties file.

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.

	Click <b>OK</b>  Click <b>Clear</b>	doesn't exist."  User ID and password text fields are cleared.	
T2: Registrar Login	Preconditions: PackSchedulerGUI has loaded  User ID: <b>registrar.properties.id</b>  Password: <b>registrar.properties.pw</b>  Click <b>Login</b>	View switches to Registrar panel with Student Directory functionality displayed	

T3: Load Student Directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click <b>Load Student Directory</b></p> <p>Select <b>test-files/student_records.txt</b></p> <p>Click <b>Select</b></p>	<p>10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.</p>	<p>10 students are listed in alphabetical order by last name. The list starts with Demetrius Austin and ends with Griffith Stone.</p>
T4: Add Invalid Student - no first name	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name:</li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> </ul>		<p>Error Message: Invalid first name</p>
	<ul style="list-style-type: none"> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Invalid first name</p>	

<p>T5: Add Invalid Student - no last name</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b> • Last Name:</li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Invalid last name</p>	<p>Error Message: Invalid last name</p>
<p>T6: Add Invalid Student - no id</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b> • Last Name: <b>Wilkins</b> • ID:</li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> </ul>	<p>Error Message: Invalid id</p>	<p>Error Message: Invalid id</p>

	<ul style="list-style-type: none"> <li>Max Credits: <b>15</b></li> </ul> Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Invalid id	
T7: Add Invalid Student - no email	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.  Enter the following in the Student Information section: <ul style="list-style-type: none"> <li>First Name: <b>Patience</b></li> <li>Last Name: <b>Wilkins</b> • ID: <b>pwilkins</b> •</li> </ul> Email: <ul style="list-style-type: none"> <li>Password: <b>pw</b></li> <li>Repeat Password: <b>pw</b></li> <li>Max Credits: <b>15</b></li> </ul> Click <b>Add Student</b>  Click <b>OK</b>	Error Message: Invalid email	Error Message: Invalid email

T8: Add Invalid Student - invalid email	<p>PPreconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkinsncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b> Click <b>Add Student</b></li> </ul>	Error Message: Invalid email	Error Message: Invalid email
	Click <b>OK</b>		

<p>T9: Add Invalid Student - passwords don't match</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw1</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Passwords do not match</p>	<p>Error Message: Passwords do not match</p>
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T10: Add Invalid Student - zero max credits	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"><li>• First Name: <b>Patience</b></li><li>• Last Name: <b>Wilkins</b></li><li>• ID: <b>pwilkins</b></li><li>• Email: <b>pwilkins@ncsu.edu</b></li><li>• Password: <b>pw</b></li><li>• Repeat Password: <b>pw</b></li><li>• Max Credits: <b>0</b></li></ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid max credits
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<p>T11: Add Invalid Student - 11 max credits</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>19</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Invalid max credits</p>	<p>Error Message: Invalid max credits</p>
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T12: Add Student - end	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Patience Wilkins is added to the Student Directory and is the last student in the list.</p>	<p>Patience Wilkins is added to the Student Directory and is the last student in the list.</p>
T13: Add Student -	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p>		<p>Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz</p>

middle	<p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Rylee</b></li> <li>• Last Name: <b>Puckett</b></li> <li>• ID: <b>rpuckett</b></li> <li>• Email: <b>rpuckett@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Rylee Puckett is added to the Student Directory between Dylan Nolan and Cassandra Schwartz</p>	
T14: Add Student - front	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T3 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Melvin</b></li> <li>• Last Name: <b>Acevedo</b></li> <li>• ID: <b>macevedo</b></li> <li>• Email: <b>macevedo@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p>	<p>Melvin Acevedo is added to the Student Directory and is the first student in the list.</p>	<p>Melvin Acevedo is added to the Student Directory and is the first student in the list.</p>

	Click <b>OK</b>		
T15: Remove Student -	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).		Error Message: No student selected
no selection	Click <b>Remove Student</b>	Error Message: No student selected	Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list

T16: Remove Student - middle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Select <b>Shannon Hansen</b></p> <p>Click <b>Remove student</b></p>	<p>Shannon Hansen is removed. Athea Hicks follows Emerald Frost in the list</p>	
T17: Remove Student - front	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T14 has run.</p> <p>Select <b>Melvin Acevedo</b></p> <p>Click <b>Remove student</b></p>	<p>Melvin Acevedo is removed. Demetrius Austin is front of the directory</p>	<p>Melvin Acevedo is removed. Demetrius Austin is front of the directory</p>
T18: Remove Student - back	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12 has run.</p> <p>Select <b>Patience Wilkins</b></p> <p>Click <b>Remove student</b></p>	<p>Patience Wilkins is removed. Griffith Stone is last in the directory</p>	<p>Patience Wilkins is removed. Griffith Stone is last in the directory</p>
T19: Save Student	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p>	<p>Contents should be (note that the password hash may be different due to encoding):</p>	

Directory	<p>Click <b>Save Student Directory</b></p> <p>Select <b>test-files</b> directory and name the file <b>t19_student_directory.txt</b>.</p>	<p>Demetrius,Austin,daustin,Cura bitur.egestas.nunc@placerator cilacus.co.uk,0ÉRú±"ÃùuYŸ!Û\7 X²F´pâ9•{-OîFâapÄ,18</p> <p>Lane,Berg,lberg,sociis@non.or g,0ÉRú±"ÃùuYŸ!Û\7X²F´pâ9•{- OîFâapÄ,14</p> <p>Raymond,Brennan,rbrennan,lit ora.torquent@pellentesquema ssalobortis.ca,0ÉRú±"ÃùuYŸ!Û\ 7X²F´pâ9•{-OîFâapÄ,12</p> <p>Emerald,Frost,efrost,adipiscing @acipsumPhasellus.edu,0ÉRú ±"ÃùuYŸ!Û\7X²F´pâ9•{-OîFâapÄ ,3</p> <p>Althea,Hicks,ahicks,Phasellus. dapibus@luctusfelis.com,0ÉR ú±"ÃùuYŸ!Û\7X²F´pâ9•{-OîFâap Ä,11</p> <p>Zahir,King,zking,orci.Donec@a metmassaQuisque.com,0ÉRú± "ÃùuYŸ!Û\7X²F´pâ9•{-OîFâapÄ, 15</p> <p>Dylan,Nolan,dnolan,placerat.C ras.dictum@dictum.net,0ÉRú± "ÃùuYŸ!Û\7X²F´pâ9•{-OîFâapÄ, 5</p> <p>Rylee,Puckett,rpuckett,rpuckett @ncsu.edu,0ÉRú±"ÃùuYŸ!Û\7X ²F´pâ9•{-OîFâapÄ,15</p> <p>Cassandra,Schwartz,cschwartz z,semper@imperdietornare.co.</p>	<p>Demetrius,Austin,daustin,Curabitur.egestas.nunc@placeratorcilacus 黃 "鸣u_ '\7X碌逮9哄-0頔鈇p,18</p> <p>Lane,Berg,lberg,sociis@non.org,0黃 "鸣u_ '\7X碌逮9哄-0頔鈇p,</p> <p>Raymond,Brennan,rbrennan,litora.torquent@pellentesquemassaloborti</p> <p>"鸣u_ '\7X碌逮9哄-0頔鈇p,12</p> <p>Emerald,Frost,efrost,adipiscing@acipsumPhasellus.edu,0黃 "鸣u_ 逮9哄-0頔鈇p,3</p> <p>Althea,Hicks,ahicks,Phasellus.dapibus@luctusfelis.com,0黃 "鸣u_ 逮9哄-0頔鈇p,11</p> <p>Zahir,King,zking,orci.Donec@ametmassaQuisque.com,0黃 "鸣u_ '\7X 哄-0頔鈇p,15</p> <p>Dylan,Nolan,dnolan,placerat.Cras.dictum@dictum.net,0黃 "鸣u_ '\ 9哄-0頔鈇p,5</p> <p>Rylee,Puckett,rpuckett,rpuckett@ncsu.edu,0黃 "鸣u_ '\7X碌逮9哄 p,15</p> <p>Cassandra,Schwartz,cschwartz,semper@imperdietornare.co.uk,0黃 "鸣 u_ '\7X碌逮9哄-0頔鈇p,4</p> <p>Griffith,Stone,gstone,porta@magnamalesuadavel.net,0黃 "鸣u_ '\7 哄-0頔鈇p,17</p>
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		uk,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,4 Griffith,Stone,gstone,porta@magnamalesuadavel.net,0ÉRú±"ÃùuŸ!Ù\7X²F'pâ9•{-OîFâapÄ,17	
T20: New Student Directory	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p> <p>Click <b>New Student Directory</b></p>	<p>An empty student directory is shown.</p>	An empty student directory is shown.
T21: Add Student - first	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.</p> <p>Enter the following in the Student Information section:</p> <ul style="list-style-type: none"> <li>• First Name: <b>Patience</b></li> <li>• Last Name: <b>Wilkins</b></li> <li>• ID: <b>pwilkins</b></li> <li>• Email: <b>pwilkins@ncsu.edu</b></li> <li>• Password: <b>pw</b></li> <li>• Repeat Password: <b>pw</b></li> <li>• Max Credits: <b>15</b></li> </ul> <p>Click <b>Add Student</b></p> <p>Click <b>OK</b></p>	<p>Patience Wilkins is added to the Student Directory and is the only student in the list.</p>	Patience Wilkins is added to the Student Directory and is the only student in the list.

T22: Course Catalog view	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Course Catalog</b></p>	Course Catalog functionality displayed	Course Catalog functionality displayed
T23: Load Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2)</p> <p>Click <b>Load Course Catalog</b></p> <p>Select <b>test-files/course_records.txt</b></p> <p>Click <b>Select</b></p>	8 courses are listed starting with CSC116-001 and ending with CSC230-001	8 courses are listed starting with CSC116-001 and ending with CSC230-001



T24: Add Invalid Course - no name	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name:</li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid course name	Error Message: Invalid course name
T25: Add Invalid Course - no title	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title:</li> </ul>		

	<ul style="list-style-type: none"> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid course title	
T26: Add Invalid Course - no section	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section:</li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	Error Message: Invalid section number	

T27: Add Invalid Course - section too short	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>Course Name: <b>CSC236</b></li> </ul>		Error Message: Invalid section number
	<ul style="list-style-type: none"> <li>Course Title: <b>Computer Organization and Assembly Language</b></li> <li>Course Section: <b>0011</b></li> <li>Credits: <b>3</b></li> <li>Instructor Id: <b>lasher</b></li> <li>Start Time: <b>10:15 AM</b></li> <li>End Time: <b>11:30 AM</b></li> <li>Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Invalid section number</p>	Error Message: Invalid section number

<p>T28: Add Invalid Course - section too long</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>01</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Invalid section number</p>	
<p>T29: Add Invalid Course - no</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information</p>		<p>Error Message: Invalid instructor unity id</p>

instructor id	section: <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>001</b> • Credits: <b>3</b> •</li> </ul> Instructor Id: <ul style="list-style-type: none"> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> Click <b>Add Course</b>  Click <b>OK</b>	Error Message: Invalid instructor unity id	
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<p>T30: Add Invalid Course - end time after start time</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>11:30 AM</b></li> <li>• End Time: <b>10:15 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	<p>Error Message: Invalid course times</p>	<p>Error Message: Invalid course times</p>
<p>T31: Add Invalid</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p>		<p>Error Message: Invalid meeting days</p>

Course - no meeting days	<p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b> • End Time: <b>11:30 AM</b> • Meeting Days:</li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>		
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Error Message: Invalid meeting days

<p>T32: Add Course - end</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC236</b></li> <li>• Course Title: <b>Computer Organization and Assembly Language</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>lasher</b></li> <li>• Start Time: <b>10:15 AM</b></li> <li>• End Time: <b>11:30 AM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	<p>CSC236-001 is added to the list at the end following CSC230-001</p>	<p>CSC236-001 is added to the list at the end following CSC230-001</p>
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<p>T33: Add Course - front</p>	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC113</b></li> <li>• Course Title: <b>Introduction to Computer - MATLAB</b></li> <li>• Course Section: <b>001</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>tbdimitr</b></li> <li>• Start Time: <b>3:00 PM</b></li> <li>• End Time: <b>3:50 PM</b></li> <li>• Meeting Days: <b>Monday &amp; Wednesday</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	<p>CSC113-001 is added to the list at the front and is followed by CSC116-001.</p>	<p>CSC113-001 is added to the list at the front and is followed by CSC116-001.</p>
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T34: Add Course - middle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T23 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC116</b></li> <li>• Course Title: <b>Introduction to Programming - Java</b></li> <li>• Course Section: <b>006</b></li> <li>• Credits: <b>3</b></li> <li>• Instructor Id: <b>jdyoung2</b></li> <li>• Start Time: <b>10:40 AM</b></li> <li>• End Time: <b>12:30 PM</b></li> <li>• Meeting Days: <b>Tuesday &amp; Thursday</b> Click <b>Add Course</b></li> </ul>	CSC116-006 is added to the	CSC116-006 is added to the list between CSC116-003 and CSC216-001.
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	Click <b>OK</b>	list between CSC116-003 and CSC216-001.	
T35: Remove Course - no selection	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Remove Course</b></p>	Error Message: No course selected	Error Message: No course selected

T36: Remove Course - middle	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Select <b>CSC216-001</b></p> <p>Click <b>Remove Course</b></p>	<p>CSC216-001 is removed. CSC116-006 is followed by CSC216-002.</p>	<p>CSC216-001 is removed. CSC116-006 is followed by CSC216-002.</p>
T37: Remove Course - front	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T33 has run.</p> <p>Select <b>CSC113-001</b></p> <p>Click <b>Remove Course</b></p>	<p>CSC113-001 is removed. CSC116-001 is the first course in the catalog</p>	<p>CSC113-001 is removed. CSC116-001 is the first course in the catalog</p>
T38: Remove Course - back	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32 has run.</p> <p>Select <b>CSC236-001</b></p> <p>Click <b>Remove Course</b></p>	<p>CSC236-001 is removed. CSC230-001 is the last course in the catalog</p>	<p>CSC236-001 is removed. CSC230-001 is the last course in the catalog</p>

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T39: Save Course Catalog	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T32-T38 have run.</p> <p>Click <b>Save Course Catalog</b></p> <p>Select <b>test-files</b> directory and name the file <b>t39_course_catalog.txt</b>.</p>	<p>Contents should be:</p> <p>CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910,1100 CSC116,Intro to Programming - Java,002,3,spbalik,MW,1120,1310 CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310 CSC116,Java,006,3,jdyoung2,TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,MW,1330,1445 CSC216,Programming Concepts - Java,601,4,jep,A CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MW F,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300</p>	<p>CSC116,Intro to Programming - Java,001,3,jdyoung2,MW,910,1100 CSC116,Intro to Programming - Java,002,3,spbalik,MW,1120,1310 CSC116,Intro to Programming - Java,003,3,tbdimitr,TH,1120,1310 CSC116,Java,006,3,jdyoung2,TH,1040,1230 CSC216,Programming Concepts - Java,002,4,jtking,MW,1330,1445 CSC216,Programming Concepts - Java,601,4,jep,A CSC226,Discrete Mathematics for Computer Scientists,001,3,tmbarnes,MW F,935,1025 CSC230,C and Software Tools,001,3,dbsturgi,MW,1145,1300</p>
T40: New Course	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T12-T18 have run.</p>		<p>An empty course catalog is shown.</p>

Catalog	Click <b>New Course Catalog</b>	An empty course catalog is shown.	
T41: Add Course - first	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T20 has run.</p> <p>Enter the following in the Course Information section:</p> <ul style="list-style-type: none"> <li>• Course Name: <b>CSC216</b></li> <li>• Course Title: <b>Programming Concepts - Java</b></li> <li>• Course Section: <b>601</b></li> <li>• Credits: <b>4</b> • Instructor Id: <b>jep</b> • Start Time:</li> <li>• End Time:</li> <li>• Meeting Days: <b>Arranged</b></li> </ul> <p>Click <b>Add Course</b></p> <p>Click <b>OK</b></p>	<p>CSC216-601 is added to the list</p> <p>CSC216-601 is added to the list</p>	CSC216-601 is added to the list
T42: Logout	<p>Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2).</p> <p>Click <b>Logout</b></p>	User is returned to the Login view	User is returned to the Login view

T42: Login Student	Preconditions: PackSchedulerGUI has loaded and registrar user is logged in (T2). T21 has run  User ID: <b>pwilkins</b> Password: <b>pw</b>		pwilkins is logged in and is switched to the user view. All that is shown is a Logout button.
	Click: <b>Login</b>	pwilkins is logged in and is switched to the user view. All that is shown is a Logout button.	