## Change Log

<table>
<thead>
<tr>
<th>Date</th>
<th>Section Number/Name</th>
<th>Change Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>12/11/18</td>
<td>Entire document</td>
<td>2019/2020 updates, screenshots updated, icons replaced with text</td>
</tr>
<tr>
<td>7/11/17</td>
<td>Tasks # 5 and #7</td>
<td>17.0.0 Updates – redo Danger messages due to functionality changes</td>
</tr>
<tr>
<td>1/4/17</td>
<td>Entire Document</td>
<td>2017/2018 Updates</td>
</tr>
<tr>
<td>10/21/16</td>
<td>Tasks #2 and 12</td>
<td>16.0.0 Updates – updated screenshots of Student Requests &amp; Assignments page</td>
</tr>
<tr>
<td>8/4/16</td>
<td>Task #14</td>
<td>16.0.0 Updates – add Note about new options on the Load Settings tab</td>
</tr>
<tr>
<td>7/6/16</td>
<td>Task #3 and 4</td>
<td>Add note about section overfill</td>
</tr>
<tr>
<td>2/1/16</td>
<td>Beginning</td>
<td>Add note about course sections with no students</td>
</tr>
<tr>
<td>1/29/16</td>
<td>Task #13</td>
<td>Add note about selected Grade Levels</td>
</tr>
<tr>
<td>12/18/15</td>
<td>Task #1</td>
<td>Fix – some steps were missing</td>
</tr>
<tr>
<td>12/4/15</td>
<td>Entire document</td>
<td>2016/2017 updates</td>
</tr>
<tr>
<td>07/01/15</td>
<td>Task #1</td>
<td>Removed steps 1-19b &amp; added to Course Requests doc</td>
</tr>
<tr>
<td>01/02/15</td>
<td>Entire document</td>
<td>2015/2016 updates</td>
</tr>
</tbody>
</table>
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Before running the Batch Scheduler the following steps need to be performed in this order:

1. School Year Initialization: Refer to the **School Year Initialization Procedural Checklist** for details.

2. Creating Sub-Calendar: Refer to the **Calendar NON EMIS or Calendar with EMIS Exceptions Procedural Checklist** for details.

3. Promoting Students to 19/20 school year: Refer to the **Student Promotion/Bulk Enrollment Procedural Checklist**.

4. Enter Course Requests in 19/20: Refer to the **Course Request Procedural Checklist** and the **Public Course Request Procedural Checklist**.

Course groups do not have a gender directive. If you give a student a request for a course group, the Batch Scheduler will not honor the gender directives set up on the course sections that comprise the course group.

**Note:** Course sections in StudentInformation that do not have any students assigned to them still go over to Grade Book. Teachers linked to these course sections (with no students) then need to hide these classes in GradeBook. It is recommended to either inactivate these course sections before turning on the PB Integration or change the teacher on these course sections to someone who does not teach other classes. However, if you choose to inactivate these course sections, the School Year Initialization process will not roll these course sections over to the next year.
Task #1 - Run scheduling reports to verify scheduling data before running the Batch Scheduler

1. Change your context to the building level in the 19/20 school year.
2. After requests have been entered, you can run scheduling reports.
3. The scheduling reports will help you verify requests, determine if you have enough course sections to accommodate the requests, and the course section meeting times are not creating conflicts for key courses. Scheduling reports can be found by navigating to **StudentInformation >> SIS >> Scheduling >> Scheduling Reports**. All the following reports are optional, however it is highly recommended that you run and verify these reports before proceeding. Scheduling reports do not have to be run in order to use the Batch Scheduler, but the reports will help verify students have the proper requests and you have the proper course sections setup to accommodate the requests before you run the Batch Scheduler.
4. Run the **Course Curriculum (CRSE)** report. This reports allows you to select up to ten customized fields which will help you verify the course weight, course abbreviations, course names, etc.
   **TIP #1:** Run CRSE report to see if study halls are marked as Course Type = Study Hall so when the Study Hall Wizard is run, the study halls will be assigned properly.
   **TIP #2:** Run CRSE report to see if courses have the correct course priority, demand count, etc.
5. Next, run the **Students with No Requests (NORQ)** report. This report produces a list of students who do not have any requests and therefore will not be scheduled by the Batch Scheduler.
   **TIP:** Run the NORQ report for Active and Non-Resident students to see which students have not put in their requests yet.
6. The **Student Course Requests (REQU)** report allows you to print a list of each student’s course requests. This report will not tell you if their
requests have a Pending status.

7. If you would like a list of students who used the Public Module and their requests have a Pending Status, you can navigate to StudentInformation >> Management >> School Administration >> Public Administration >> Uncommitted Requests. Choose either Unapproved by Parent/Guardian or Uncommitted by Student. The Uncommitted Requests page will give you a list of students whose requests do not have an Approved status. If you need to print this page, click File – Print.

8. The Course Request Labels (R206) can be run to generate student labels to affix to course request sheets.

9. Next, to ensure students have met all pre- and co-requisites for a request, do not have any invalid course requests, or they do not meet the gender or grade requirements of the course, run the Student Course Request Verification (R401). The report will list each student’s requests. The report also has the option to only print students with error messages.

The R401 Error Code Key is as follows:
   a. ALT – Alternate Course ID
   b. INV – Invalid Course ID
   c. SEX – Sex restriction not met
d. GRD – Grade restriction not met

f. DUP – Duplicate Course Requests

g. PRQ – Pre-requisites not met

h. COQ – Co-requisites not met

10. Next, the **Tally of Student Course Requests (R402)** will list each course and the number of students requesting each course. **TIP:** You can use this report to ensure the course sections have enough capacity to accommodate all the requests.

11. The **Potential Course Conflicts Matrix (R403)** report can be used to generate a matrix listing of each course ID against all other course IDs in order to determine the number of conflicts that would result if two courses were offered only one time (singleton) within the same block/period of the day. The forecasted number of conflicts will be printed at the intersection point of the matrix corresponding to each pair of courses. **TIP:** You can use the report to analyze requests to determine how many sections of a course are needed, and if the requests create any time conflicts.

12. The **Student Who Requested A Specific Course (R404)** report allows the user to receive a list of students that have requested a specific course. The report also has the ability to list the courses that have less than a specified number of requests.

13. The **Students Requesting A Specific Course Pair (R405)** report produces a list of students that have requested a specific pair of courses. Once you have determined which courses are singletons by running either the R403 or R406 report, you can run the R405 report to see which
students will actually have a conflict if the meeting times on the two courses are left the same (singleton).

14. The **Potential Course Conflicts (R406)** report is used to generate a table listing each course ID against all other course IDs that have been jointly requested by one or more students, in order to determine that number of conflicts that would result if the two courses were offered only one time (singleton) within the same block/period. Optionally, this report can be based on only those courses where the number of students requesting the course is less than or equal to the number specified on the report submission screen.

15. Next, the **Course Request Verification Slip (R416)** report can be run to create verification slips to pass out to students so they can verify their course requests for accuracy. The report has the option to print one student per page and also has the option to print the student’s current schedule in 18/19 and their requests for 19/20.

16. The **Location Schedule (R409)** report generates a schedule for one or all locations/rooms, indicating the courses that are scheduled within a specified time period in that location. Additionally, it is used to confirm that
the class master schedule doesn’t contain any location/room conflicts.

17. The **Teacher Schedule (R411)** report is used to generate a schedule for one or all teachers. The report indicates the courses they are scheduled to teach within a specified time period. Additionally, the report is used to confirm that the class master schedule does not contain any teacher conflicts.

18. The **Singleton List Report (R813-A)** report prints out courses that only exist in one period during the day. This allows the user to see which courses will be in conflict with each other if they are only offered once.

19. Finally, to verify you have the needed courses, course sections, meeting times and capacities setup, run the **Class Master Schedule (R407)** report. The demand count on the R407 is the number of students who
20. Edit the Master Schedule by navigating to **StudentInformation** > **Management** > **School Administration** > **Scheduling Administration** > **Initialization** > **Master Schedule**. Click on the blue links to edit course sections, course groups, or courses. The Master Schedule contains all class meeting information that corresponds to each course and course group that is offered for a selected school year. A building may have multiple Master Schedules defined. One example of why a school would want multiple Master Schedules is if they have a levy on the ballot and they are not sure if it will pass or not. One Master Schedule would include all course section assignments if they levy passed and other Master Schedule would not include the course sections they would have to discontinue using if they had to lay off teachers because the levy failed. State Support recommends keeping it simple the first couple of years and using only one Master Schedule. Once the school is familiar with how StudentInformation scheduling works and feels more comfortable with the process, they can use multiple Master Schedules. If the school decides to use multiple Master Schedules, please keep in mind that only one Master Schedule Result Set can be chosen as the finalized schedule.

21. Review and update course sections and course section meeting times by navigating directly to the course sections page **StudentInformation** > **Management** > **School Administration** > **Scheduling Administration** > **Course Maintenance** > **Course Sections**.

22. Review and update course groups by navigating directly to the course groups page **StudentInformation** > **Management** > **School Administration** > **Scheduling Administration** > **Course Maintenance** > **Course Groups**.

23. Review and update the courses by navigating directly to the courses page **StudentInformation** > **Management** > **School Administration** > **Scheduling Administration** > **Course Maintenance** > **Courses**.

24. Once you have run all the necessary reports and made changes to the Master Schedule, the Batch Scheduler can be run.
Task #2 - Schedule important or special course sections by hand before the Batch Scheduler is run to ensure the student’s placement in the courses

1. Occasionally, a student needs to have a certain course a certain period as a top priority.
2. State Support recommends scheduling those course sections by hand before the Batch Scheduler is run so the rest of the student’s schedule can be built around those important courses.
3. Example: A student has to take PSO Comp in 19/20. The course is only offered 9th period but other key courses she has requested such as Geometry and Biology are also offered 9th period. The school would want to manually schedule her into 9th period PSO Comp by using the Course Section Assignments page or Request Assignments page and then let the Batch Scheduler fulfill her requests for Geometry and Biology for another period besides 9th period.
4. To add a manual assignment using the Course Section Assignments page navigate to StudentInformation » SIS » Scheduling » Course Section Assignments.
5. Put a student in context.
6. Select a master schedule from the Schedule dropdown.
7. Next, select a schedule result set from the Schedule Result dropdown.
8. The Schedule Result should have been created as a part of the School Year Initialization Procedural Checklist.
9. If you already have a Result Set in the dropdown skip to #10.
   a. If the dropdown is empty navigate to StudentInformation » Management » School Administration » Scheduling Administration » Scheduler » Schedule Result Sets to create a Schedule Result Set.
   b. On the Schedule Result Sets page in the Filter By Schedule dropdown choose a Master Schedule. Typically there is only one schedule in the dropdown.
   c. Click Add Schedule Result.
   d. Enter a name in the Name field. SI State Support recommends naming it Default Schedule Result.
   e. Click Save.
10. Once you have selected a schedule and schedule result set we are ready to add assignments.
   a. Click Add Course Assignment.
   b. The page refreshes.
   c. In the Course/Section fields enter the course and section number.
   d. If you don’t know the course and or section number use the Ellipse icon.
   e. If you clicked on the Ellipse icon a new window pops up that shows each section of the course and the capacity and filling count.
f. Click on the blue link for the section number 10 and the section number will be automatically filled in for you.

h. If the course section is associated with a course term that starts after the current date the **Start Date** will default to the first day of that course term.

g. The **Assignment Start Date** field defaults to the first day of school.

i. Click **Save**.

j. The page refreshes and the following message is displayed, **The Course Section Assignments was marked to be saved. Click the save changes button to commit to the database.**

k. Click **Save Changes** again to commit the changes to the database.

l. If click **Save Changes** isn’t clicked the course section will not be assigned.

m. The page refreshes.

n. Another item to note is the **Type** says **Manual**. This means the course section assignment was added by hand by the office staff versus being scheduled by the Batch Scheduler. (Assignments made by the Batch Scheduler have a **Type of Batch**.)
11. The manual assignment will not show on the Requests page (see screen shot below) because the assignment didn’t originate from a request. The Requests page only shows requests.

12. Manual assignments may also be added on the Request Assignments page.

13. Navigate to StudentInformation » SIS » Student » Student Schedule » Request Assignments.
   a. Select a Working Schedule and Result from the dropdowns.
   b. Click Reload Screen.
   c. Click Add Assignment.
   d. The right side of the screen refreshes.
   e. In the Choose Course or Course Section fields enter the course section number or use the Ellipse icon to select the course section.
   f. Click Next or hit the Tab key on the keyboard.
   g. All sections of the course will appear.
h. Click the **Assign** button of the section you would like to assign to the student.

i. The right side of the screen refreshes again.

j. The **Course/Section** fields are grayed out – which is correct since we selected which section we wanted by clicking Assign in the previous step.

k. If you selected the wrong course section click **Cancel**.

l. The **Assignment Start Date** field always defaults to the first day of the course term.

m. Click **Save Assignment**.
n. Notice there is no corresponding request on the same line for this course section assignment. This means the course was entered manually and didn't originate from a request.

If you add a manual assignment to a student using the Course Section Assignments, Request Assignments, or Bulk Assign please make sure you inactivate any request they have for the course (if it doesn't appear on the same line on the Request Assignments page. If the request isn't inactivated before the Batch Scheduler runs the Batch Scheduler will attempt to fulfill the outstanding request and the student could end up with two assignments for the same course.
Task #3 - Configure Single Student Scheduler (SSS) to schedule individual students on the Requests page

1. Navigate to StudentInformation » Management » School Administration » Scheduling Administration » Scheduler » Job Parameter Sets.

2. If your school was live on SI last year all the job parameter sets from 18/19 copied up to 19/20. SI State Support recommends deleting all unwanted job parameter sets that copied up from 18/19 so there will no confusion as to which job parameter you are using this year.

3. Click Add Job Parameter Set.

4. You will be brought to the first tab of the Schedule Job Wizard page named Run Level Parameters.
   a. In the Grade Levels to Schedule filter pull over all grade levels to the right.
   b. In the Course Terms to Schedule filter pull over all course terms to the right.
   c. In the Sort Criteria for Student who are being Scheduled filter it doesn’t matter what is selected since the SSS only schedules one student at a time.
   d. In the following screenshot I have chosen Student Random.
   e. The Section Overfilled Percent field will be filled out according to your school’s policy on overfilling. Some schools allow no overfilling and others allow five or ten percent or even more.
      Note: If your school does not allow section overfilling, enter 0. If left blank, the scheduler will not complete.
   f. Example: If a course had a capacity of 20 and the Section Overfilled Percent was set to five percent that means the SSS would overfill the course section by one student. (5% of 20 = 1)
   g. Next, in the Course Group Locking dropdown choose either Lock No Course Groups which means that if a student has a request for a course that is part of a group but doesn’t have a separate request for the group, the SSS will attempt to schedule the student into the course even if the course group is marked as Is Locked on the Course Group Maintenance page.
   h. If Honor Course Group Locks is chosen, then the SSS will look at the course setup. If the group is locked and a student has a request for a course that is part of the group the SSS will not schedule the student in the course because the group is locked.
   i. If Lock All Course Groups is chosen, the SSS will not attempt to schedule any individual requests for a course that is part of a group even if the group isn’t locked.
   j. In the Balance By Ethnicity choose No Balancing or an ethnicity filter.
k. If an ethnicity filter is chosen from the dropdown the Batch Scheduler will attempt to schedule 50% of the ethnicity chosen and then the remaining 50% will be comprised of all other ethnicities not chosen.
l. Example: If **H-Hispanic** is chosen the **Balance By Ethnicity** dropdown the Batch Scheduler will attempt to schedule each course section with 50% Hispanic students and the other 50% of students a mix of the remaining ethnicities that weren’t chosen.
m. The **Time Limit Per Student** filter determines the maximum number of seconds that the scheduler will try to schedule each student.
n. In the following screenshot I have chosen **60** seconds per student.

### Schedule Job Wizard

From this screen, you can save Job Parameter Sets for the Scheduler

#### Grade Levels to Schedule

<table>
<thead>
<tr>
<th>Grade Levels</th>
<th>05 - 05</th>
<th>06 - 06</th>
<th>07 - 07</th>
<th>08 - 08</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 th - 12 th</td>
<td>09 - 09</td>
<td>10 - 10</td>
<td>11 - 11</td>
<td>12 - 12</td>
</tr>
</tbody>
</table>

#### Course Terms to Schedule

<table>
<thead>
<tr>
<th>Course Terms</th>
<th>1st Semester Course</th>
<th>2nd Semester Course</th>
<th>All Year Course</th>
</tr>
</thead>
</table>

**Note:** Sort Criteria chosen in the right list box, are applied in order from top to bottom, when ordering the students who are to be Scheduled.

#### Sort Criteria for Students who are being Scheduled

- Student Number DESC
- Student Schedule Priority
- Student Requesting Group
- Grade Level DESC

**Note:** The Time Limit Per Student value determines the maximum number of seconds that the scheduler will try to schedule each student.

5. Click **Next** to move to the 2nd tab named **Pass Level Parameters**.
   a. In the **Maximum Number of Passes** dropdown choose **1**.
   b. The SSS only needs to make one pass.
   c. The **Maximum Number of Periods Per Day** filter typically defaults to the number of periods found on the **Periods of the Day Maintenance** page.
   d. If you want to make sure there is room for study halls you may want to use a number that is lower than the actual number of periods for the school.
   e. Example: Your school has 10 periods in each day. You can type in 8 in the **Maximum Number of Periods Per Day** field so that you still have 2 open periods.
   f. The other four items on the tab will be explained in greater detail in Task #4 when you setup the job parameter for the Batch Scheduler.
   g. In general the other options aren’t used by the SSS scheduler so leave them blank.
The following screenshot is an example of the **Pass Level Parameters** tab for SSS.

### Schedule Job Wizard

From this screen, you can save Job Parameter Sets for the Scheduler

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>#</td>
<td><strong>Description</strong></td>
<td>#</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1.</td>
<td>Enforce Course Sequencing Rules</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2.</td>
<td>Enforce Daily Pattern Rules</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3.</td>
<td>Enforce Teacher Link Groups</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4.</td>
<td>Enforce Maximum Number of Periods Per Day</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5.</td>
<td>Enforce Number of Courses Between Schedule Terms</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6.</td>
<td>Enforce Course Weights Between Schedule Terms</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7.</td>
<td>Allow Section Overfilling</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8.</td>
<td>Try Alternates</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>9.</td>
<td>Allow Partial Schedules</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10.</td>
<td>Order Requests By Priority</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.</td>
<td>Enforce Requests with Assigned Teacher or Period</td>
<td>✔️</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. Click **Next** to move the 3rd tab named **Pass Control**.
   a. On the **Pass Control** tab place a check in the box next to **#9 Allow Partial Schedules**.
   b. If the **Section Overfill Percent** was filled out on tab 1 make sure to a check in the box in **#7 Allow Section Overfilling**.
   c. If **#7 Allow Section Overfilling** wasn’t checked the SSS wouldn’t overfill even though 5% overfilling entered on tab #1.
   d. The other options typically aren’t used when running the SSS and will be explained in detail in Task #4 when we setup the job parameter for the Batch Scheduler.
   e. If your school wishes to use some of the other options you can go back and edit the SSS job parameter at anytime and select them.

### Schedule Job Wizard

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<td>3.</td>
<td>Enforce Teacher Link Groups</td>
<td>✔️</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>4.</td>
<td>Enforce Maximum Number of Periods Per Day</td>
<td>✔️</td>
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<tr>
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<td>Enforce Number of Courses Between Schedule Terms</td>
<td>✔️</td>
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</table>

7. Click **Next** to move the 4th tab named **Course Sequencing Rules**.
   a. Typically, the SSS isn’t set up with course sequencing rules.
b. The **Course Sequencing** tab will be explained in detail in Task #4 when we setup the job parameter for the Batch Scheduler.

c. If your school wishes to use **Course Sequencing Rules** tab you can edit the SSS job parameter at anytime and set them up.

8. Click **Next** to move to the 5th tab named **Teacher Link Groups**.
   a. Typically the SSS isn’t set up with **Teacher Link Groups**.
   b. The **Teacher Link Groups** tab will be explained in detail in Task #4 when we set up the job parameter for the Batch Scheduler.
   c. If your school wishes to use **Teacher Link Groups** tab you can edit the SSS job parameter at anytime and set them up.

9. Click **Next** to move to the 6th and final tab named **Submit**.
   a. In the **Job Parameter Set Name** field enter **Single Student Scheduler**.
   b. The **Job Parameter Set Description** field is optional.
   c. Put a check in the box next to **Set this Parameter Set as the Single Student Parameter Set**.
   d. Once you put in the checkbox the page refreshes and now there is another option named **Allow Partial Schedules for the Single Student Parameter Set**.
   e. Place a checkbox in this option also.
   f. Caution – do not check the other box next to **Set this Parameter Set as the Default Batch Parameter Set**. A separate parameter set must be setup for the Batch Scheduler. We will do that in Task #4 when we set up the parameter for the Batch Scheduler.
   g. The next option named **Clear Schedule Result Created by the Scheduler**, if checked, the option will undo all course section assignments previously scheduled by the Batch Scheduler or all course section assignments scheduled in prior runs of the SSS and attempt to reschedule the student into the course sections.
   h. If the other option, **Clear Schedule Results Created Manually**, is checked, the SSS will undo any course sections assignments that originated from a request and were assigned manually and attempt to reschedule them.
i. Typically neither option is checked when running the SSS.

### Schedule Job Wizard

From this screen, you can save Job Parameter Sets for the Scheduler

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
</table>

Is Active:  
Job Parameter Set Name: *Single Student Scheduler*

Job Parameter Set Description:

- Set this Parameter Set as the Default Batch Parameter Set
- Set this Parameter Set as the Single Student Parameter Set
- Allow Partial Schedules for the Single Student Parameter Set

If checked, the scheduler will first clear from the Schedule Result set chosen above, any assignments that were made for Requests by one or more previous scheduler runs. It will then attempt to reschedule the associated Requests.

- Clear Schedule Results Created By Scheduler
- Clear Schedule Results Created Manually

10. Once the page refreshes, you are brought back to the Job Parameter Set Maintenance page.

11. The Single Student Scheduler can be run on the Student Requests page (StudentInformation » SIS » Scheduling » Requests) and on the Request Assignments page (StudentInformation > SIS > Student > Student Schedule > Request Assignments)

a. The Single Student Scheduler is typically run when new students arrive in the district after the Batch Scheduler has already been run.

12. Now, we are ready to setup the Batch Scheduler job parameter set.
Task #4 - Configure Batch Scheduler job parameter to schedule the entire school

1. The Batch Scheduler can be run for one grade level at a time or the entire school.
2. In this task we will setup the Batch Scheduler to run for the entire school.
3. If you would like to run the Batch Scheduler one grade level at a time select one grade level in the filter and run the Batch Scheduler. Run reports to resolve conflicts and then run the scheduler again with the same grade level selected until the desired results are achieved. Now edit the parameter set and pull a new grade level over to the right and remove the other grade level from the filter. Run the Batch Scheduler and resolve conflicts. Repeat this process for the remaining grade levels.
4. Navigate to StudentInformation » Management » School Administration » Scheduling Administration » Scheduler » Job Parameter Sets.
5. Click Add Job Parameter Set.
6. You will be brought to the first tab of the Schedule Job Wizard page named Run Level Parameters.
   a. In the Grade Levels to Schedule filter pull over all grade levels to the right.
   b. In the Course Terms to Schedule filter pull over all course terms to the right.
   c. The next section is named the Sort Criteria for Students who are being Scheduled.
   d. Multiple sort criteria can be pulled over to the right but the sort criteria is applied in order from top to bottom.
   e. If Grade Level ASC is chosen SI will attempt to schedule the lowest grade level first.
   f. If Grade Level DESC is chosen SI will attempt to schedule the highest grade level first.
   g. In other words if you want the scheduler to schedule 12th graders before scheduling the other grade levels choose Grade Level DESC.
   h. If it doesn’t matter which grade level gets scheduled first choose Student Random.
   i. Do not select both Grade Level ASC and Grade Level DESC.
   j. If Student Name ASC is chosen students with last names starting with A are scheduled before students with last names that begin with B.
   k. If Student Name DESC is chosen students with last names starting with W are scheduled before students with last names that begin with T for example.
   l. If it doesn’t matter which students are scheduled first choose Student Random.
m. If **Student Number ASC** is chosen students with the lowest student numbers will be scheduled first.

n. Example: student #10029 will be scheduled before student #10041.

o. If **Student Number DESC** is chosen students with the highest student numbers will be scheduled first.

p. If it doesn’t matter which students are scheduled first choose **Student Random**.

q. If **Student Schedule Priority** is chosen the Batch Scheduler will look the **Scheduling Priority** field on the Additional tab of each student’s profile.

r. The **Scheduling Priority** field defaults to 5 upon registration and isn’t a field that is commonly used in SI. Scheduling Priority is only used when running the Batch Scheduler or Study Hall Wizard.

s. **Scheduling Priority** is not the same as **Course Priority**. Course Priority will be discussed later in this task.

t. Most schools will not choose to schedule by **Scheduling Priority**.

u. If your school does choose to schedule by **Scheduling Priority** you can use **SIS Student Search** to create a list of each student’s scheduling priority.

v. Navigate to **StudentInformation » EZ Query » Reports » SIS Student Search** to create the list.

w. If **Student Requesting Group** is chosen the Batch Scheduler will attempt to schedule students who have requests for course groups before students without requests for course groups.

x. For example, I have chosen to sort by **Student Requesting Groups** and **Student Last Name ASC**. Since **Student Requesting Group** is listed first this means the Batch Scheduler will attempt to schedule students who requested groups first and whose last names begins with the letter A and then all other students without requests for groups whose last name starts with A first.

y. The **Section Overfilled Percent** field will be filled out according to your school’s policy on overfilling. Some schools allow no overfilling and others allow five or ten percent or even more.

Note: If your school does not allow section overfilling, enter 0. If left blank, the scheduler will not complete.

z. Example: If a course had a capacity of 20 and the **Section Overfilled Percent** was set to five percent that means the Batch Scheduler would overfill the course section by one student. (5% of 20 = 1)

aa. In the screenshot below I have chosen **5%**.

bb. Next, in the **Course Group Locking** dropdown choose either **Lock No Course Groups** which means that if a student has a request for a course that is part of a group but doesn’t have a separate request for the group, the SSS will attempt to schedule the student into the course even if the course group is marked as **Is Locked** on the **Course Group Maintenance** page.
cc. If *Honor Course Group Locks* is chosen then the Batch Scheduler will look at the course setup and if the group is locked and a student has a request for a course that is part of the group but doesn’t have a separate request for the group itself the Batch Scheduler will not schedule the student in the course.

dd. If *Lock All Course Groups* is chosen the Batch Scheduler will not attempt to schedule any request for a course that is part of a group even if the group isn’t locked.

ee. In the *Balance By Ethnicity* choose *No Balancing* or an ethnicity filter.

ff. If an ethnicity is chosen from the dropdown the Batch Scheduler will attempt to schedule 50% of the ethnicity chosen and then the remaining 50% will be comprised of all other ethnicities not chosen.

gg. Example: If *H-Hispanic* is chosen in the *Balance By Ethnicity* dropdown the Batch Scheduler will attempt to schedule each course section with 50% Hispanic students and the other 50% of students a mix of the remaining ethnicities that weren’t chosen.

hh. The *Time Limit Per Student* filter determines the maximum number of seconds that the scheduler will try to schedule each student.

### Schedule Job Wizard

*From this screen, you can save Job Parameter Sets for the Scheduler*

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Levels to Schedule:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>05 - 05</td>
<td>06 - 05</td>
<td>07 - 07</td>
<td>08 - 09</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Course Terms to Schedule: | | |
| 1st Semester Course | 2nd Semester Course | All Year Course |

*Note: Sort Criteria chosen in the right list box, are applied in order from top to bottom, when ordering the students who are to be Scheduled.*

<table>
<thead>
<tr>
<th>Student Number ASC</th>
<th>Student Number DESC</th>
<th>Student Requesting Group ASC</th>
<th>Student Requesting Group DESC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Level ASC</td>
<td>Grade Level DESC</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

| Section Overfilled Percent: | |
| 5 |

<table>
<thead>
<tr>
<th>Course Group Locking:</th>
<th>No Lock Course Groups</th>
<th>Balance By Ethnicity:</th>
<th>No Balancing</th>
</tr>
</thead>
</table>

*Note: The Time Limit Per Student value determines the maximum number Of seconds that the scheduler will Try To schedule Each student.*

### 7. Click **Next** to move to the 2nd tab named **Pass Level Parameters.**

a. In the *Maximum Number of Passes* dropdown choose 3.

b. You can choose more or less if desired.

c. 99% of schools will choose 3 passes.

d. The *Maximum Number of Periods Per Day* filter typically defaults to the number of periods found on the *Periods of the Day Maintenance* page.

e. If you want to make sure there is room for study halls you may want to use a number that is lower than the actual number of periods for the school.
f. Example: Your school has 10 periods in each day. You can type in 8 in the **Maximum Number of Periods Per Day** field so that you still have 2 open periods.

g. 99% of schools will choose to leave the default value.

h. Next, the **Maximum Variation of Courses Between Schedule Terms** can be set so the maximum of courses the student is scheduled into doesn’t vary more than the specified value between course terms.

i. Example: **Maximum Variation of Courses Between Schedule Terms** is set to 2. This means the student could have seven 1st Semester classes and nine 2nd Semester classes but couldn’t have seven 1st Semester classes and ten 2nd Semester classes, because then the variation would be 3.

j. Next, the **Maximum Variation of Course Weights Between Schedule Terms** option looks at the **Weight** value filled out on each course and balances the student’s course section assignments so both terms are equally weighted.

k. Example: A school chooses 10 in the **Maximum Variation of Courses Weights Between Schedule Terms** on the **Pass Level Parameters** tab. A student has 12 requests. Four requests are for All Year courses and each course has a weight of 10. Four requests are for 1st Semester Only courses and each course has a weight of five, and four requests are for 2nd Semester only courses and each course has a weight of ten. The sum of weights for All Year courses is 40, 1st Sem only courses is 20, and 2nd Sem only courses is 40. Since the school chose that the maximum variation couldn’t be greater than ten the Batch Scheduler will attempt to schedule three All Year courses which would be a total weight of 30, all four 1st Sem only courses, which would be a total weight of 20, and three 2nd Sem only courses, which would be a total weight of 30. The maximum variation between course terms is ten.

l. Approximately only 5% of schools will use this option.

m. Next, the **Maximum Number of Days Allowed with Restricted Patterns** looks at the **Daily Pattern Rules** setup in SI and determines the number of days a student’s schedule can break the **Daily Pattern Rules**.

n. To setup **Daily Pattern Rules** navigate to **StudentInformation** » **Management** » **School Administration** » **Scheduling Administration** » **Initialization** » **Daily Pattern Rules**.

**Daily Pattern Rules**

*From this screen, you are able to specify default daily pattern rules for the master calendar.*

Max Consecutive Courses: 
Max Consecutive Artificial Courses: 

[Save]  [Cancel]
o. In the **Max Consecutive Course** field fill in the number of courses a student can have in a row without a study or lunch (artificial courses). In the **Max Consecutive Artificial Courses** fill in the number of artificial courses a student can have in a row. You can also control the placement of study halls on the **Study Hall Wizard** which will be explained in detail later in this document.

p. Finally, the **Maximum Number of Days Allowed with Excessive Periods** is the maximum number of days a student’s schedule may violate the **Max Periods Per Day Restriction** setup above.

### Schedule Job Wizard

**From this screen, you can save Job Parameter Sets for the Scheduler**

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. The number of passes executed by the scheduler. Note: the Single Student scheduler will only use the first pass even if multiple passes are selected.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Number of Passes:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2. The maximum number of periods that a student may be assigned to courses on a rotation day.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Number of Periods Per Day:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3. The maximum difference, between any two schedule terms, in the number of courses to which a student is assigned.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Variation of Courses Between Schedule Terms:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4. The maximum difference, between any two schedule terms, in the total weight of courses to which a student is assigned.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Variation of Course Weights Between Schedule Terms:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5. The maximum number of days on which the courses to which a student is assigned may violate the Daily Pattern Rules.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Number of Days Allowed with Restricted Patterns:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6. The maximum number of days on which the courses to which a student is assigned may violate the Max Periods Per Day restriction.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Maximum Number of Days Allowed with Excessive Periods:</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

8. Click **Next** to move to the third tab named **Pass Control**.

a. Since three passes were selected on the **Pass Level Parameters** tab three columns are showing on the **Pass Control** tab.

b. The Batch Scheduler will attempt to schedule the students in three passes.

c. The first pass should be the most restrictive pass, the second pass less restrictive, and the third pass the least restrictive.

d. The first option is **Enforce Course Sequencing Rules**.

e. If the school is using Course Sequencing Rules put a checkbox in the appropriate passes. Typically schools will choose to **Enforce Course Sequencing Rules** on all passes or zero passes.

f. Course Sequencing Rules will be explained when we move to the 4th tab which is named **Course Sequencing Rules**.

g. Approximately 50% of schools will use this option.

h. The second option is named **Enforce Daily Pattern Rules**. If the school has setup **Daily Pattern Rules** and chose to use the
**Maximum Number of Days Allowed with Restricted Patterns** on tab 2 they would want to put a check in the appropriate passes.

i. Only approximately 5% of schools use this option.

j. The third option is **Enforce Teacher Link Groups**. If the school is using Teacher Link Groups put a checkbox in the appropriate passes. Typically schools will choose to **Enforce Teacher Link Groups** on all passes or zero passes.

k. Teacher Link Groups will be explained in greater detail when tab 5 is reached.

l. Approximately 35% of schools will use this option. Typically the school will setup course groups instead of using **Teacher Link Groups**.

m. The fourth option is named **Enforce Maximum Number of Periods Per Day**.

n. If the school would like the Batch Scheduler to enforce the **Max Number of Periods Per Day** parameter setup on tab 1 check the appropriate passes.

o. Typically a school would only enforce **Max Number of Periods Per Day** if the **Max Number of Periods** was setup to a number lower than the total number of periods the school offered in a day.

p. Example: A school has 10 periods a day but on the **Max Number of Periods Per Day** on tab 2 they filled in 8. If the school would like to honor that parameter when the Batch Scheduler runs they would need to put a check in the appropriate passes.

q. Approximately only 5% of schools use this option.

r. The fifth option is named **Enforce Number of Courses Between Schedule Terms**.

s. If the school would like to enforce the **Maximum Variation of Courses Between Schedule Terms** parameter that was filled out on the 2nd tab check the boxes on the appropriate passes.

 t. Approximately only 5% of schools use this option.

u. The sixth option is named **Enforce Course Weights Between Schedule Terms**.

v. If the school would like to enforce maximum **Variation of Course Weights Between Schedule Terms** that was filled out on the 2nd tab check the boxes on the appropriate passes.

w. Approximately only 5% of schools use this option.

x. The seventh option is named **Allow Section Overfilling**.

y. Typically overfilling is chosen for the final pass which is the least restrictive pass. If 5% overfilling was chosen on tab 1 but checkbox to allow overfilling isn’t marked none of the course sections will be overfilled.

z. Approximately 95% of schools will use this option.

aa. The eighth option is named **Try Alternates**.

bb. When requests are entered the user has the option to specify an alternate request.
cc. If your school would like the Batch Scheduler to attempt to schedule alternate requests if the primary request isn’t available check the corresponding boxes. Typically schools allow alternates on the last pass which is the least restrictive pass.

dd. Approximately 50% of schools will use this option.

e. The ninth option is named **Allow Partial Schedules**.

ff. **Allow Partial Schedules** should always be checked for the final and least restrictive pass. **Allow Partial Schedules** isn’t checked for the other passes because you want the Batch Scheduler to attempt to fully schedule the student and then if it can’t honor all the student’s requests by the time the Batch Scheduler gets to the final pass, the Batch Scheduler will attempt to honor the requests it can – thus giving the student a partial schedule.

gg. All schools will use this option.

hh. The tenth option is named **Order Requests By Priority**.

ii. Each request has a priority. Please see the **Course and Course Group Step by Step** for information on how to set up course priority.

jj. If **Order Requests By Priority** is marked on a pass the Batch Scheduler will schedule higher priority courses and course groups before lower priority courses and course groups.

kk. If two course or course group requests have the same priority the Batch Scheduler will look to see how often the course is offered. If one course is offered only once (singleton) and the other course is offered twice (doubleton) the Batch Scheduler will schedule the singleton before it schedules the doubleton.

ll. Example: A student has a priority of 9 request for course A that has one course section (singleton), a priority 9 request for course B that has two course sections (a doubleton), and a priority 9 request for course C that has three course sections (a tripleton). The student also has a priority 7 request for course D, and a priority 4 request for course E. The Batch Scheduler will assign scheduling positions of 1 for request A, 2 for request B, 3 for request C, 4 for request D, and 5 for request E. When the Batch Scheduler schedules the student, it will never leave request A unscheduled in order to schedule requests B, C,D,or E. It will never leave request B unscheduled in order to schedule requests C,D, or E. It will never leave request C unscheduled in order to schedule requests D or E. And it will never leave request D unscheduled in order to schedule request E.

mm. Typically schools honor course priority on all passes of the Batch Scheduler or no passes.

nn. The eleventh option is **Enforce Requests with Assigned Teacher or Period**.

oo. When requests are entered users have the ability to specify a specific teacher or period. If specific teachers or periods have been requested SI State Support recommends enforcing this on all passes.
Approximately 50% of schools will use this option.

9. Click **Next** to move to the fourth tab named **Course Sequencing Rules**.
   a. If the school wishes to use **Course Sequencing Rules** the rules will need to be setup on the fifth tab.
   b. The Batch Scheduler assumes that if a student has a request for a course they have already been approved to take the course.
   c. The Batch Scheduler will not check to make sure pre and co-requisites are met or if the student is in the appropriate grade level to take the course. All of this checking is done when the course request is entered.
   d. Again the Batch Scheduler assumes all criteria for the course have been met.
   e. The **Course Sequencing Rules** tab allows the school the option to tell SI that certain courses need to be taken in the same schedule term, an earlier schedule term, a later schedule terms, or not in the same schedule term.
   f. In the **Primary Course** field enter the course code. Use the picker to find the course code if needed.
   g. In the **Rule** dropdown choose **In Earlier Schedule Term, Not in Earlier Schedule Term, In Same Schedule Term**, or **Not in Same Schedule Term**.
   h. In the **Secondary Course** field enter the course code. Use the course picker if needed.
   i. The **Is Rigid** box can be checked if you want the Batch Scheduler to honor the course sequencing rules on all passes even though option #1, **Enforce Course Sequencing Rules**, isn't checked on the **Pass Control** tab.
   j. If the **Is Rigid** box isn't checked the Batch Scheduler will not honor the course sequencing rules unless option #1 on the **Pass Control** tab is checked.
k. Click **Add**.

### Schedule Job Wizard

From this screen, you can save Job Parameter Sets for the Scheduler.

<table>
<thead>
<tr>
<th>Primary Course</th>
<th>Rule</th>
<th>Secondary Course</th>
<th>Is Rigid</th>
</tr>
</thead>
<tbody>
<tr>
<td>910111 - Art Foundations I</td>
<td>In Earlier Schedule Term</td>
<td>910112 - Art Foundations II</td>
<td>✔</td>
</tr>
<tr>
<td>910111 - Art Foundations I</td>
<td>In Same Schedule Term</td>
<td>910121 - Drawing</td>
<td>✔</td>
</tr>
<tr>
<td>2910 - Painting</td>
<td>In Earlier Schedule Term</td>
<td>910112 - Art Foundations II</td>
<td>✔</td>
</tr>
<tr>
<td>910125 - Photography</td>
<td>In Earlier Schedule Term</td>
<td>910126 - Advanced Photography</td>
<td>✔</td>
</tr>
<tr>
<td>910131 - Ceramics</td>
<td>In Earlier Schedule Term</td>
<td>910134 - Advanced Ceramics</td>
<td>✔</td>
</tr>
<tr>
<td>910132 - Sculpture</td>
<td>In Earlier Schedule Term</td>
<td>910135 - Advanced Sculpture</td>
<td>✔</td>
</tr>
<tr>
<td>950112 - PE II</td>
<td>Not In Same Schedule Term</td>
<td>950312 - Nutrition &amp; Weight Management</td>
<td>✔</td>
</tr>
</tbody>
</table>

l. In the example screenshot the course sequencing rules says 910111 - Art Foundations I must be taken in an earlier schedule term than 910112 - Art Foundations II and the course sequencing rule Is Rigid. This means even if #1 Enforce Course Sequencing Rules isn’t marked on the Pass Control tab the Batch Scheduler will still enforce the course sequencing rules.

10. Click **Next** to move to the fifth tab named **Teacher Link Groups**.

a. **Teacher Link Groups** are used when a school wants students to have the same teacher for multiple courses but doesn’t necessarily mind which course sections they are scheduled into-only that the teacher is the same.

b. Example: Mrs. Brown and Mr. Black each teach two sections Chemistry II and two sections of Chemistry Lab. If a student requested Chemistry II and Chemistry Lab the school wants the student to have the same teacher for both class and the lab but doesn’t mind which section – as long as the teacher is the same.

c. In the **Teacher Link Group Name** field enter a name.

d. In the **Teacher Link Group Description** enter an optional description.

e. In the **Courses** dual select box pull the courses which require the students to take with the same teacher to the right.

f. Click **Add**.
g. In the screenshot below, a teacher link group has been setup for courses Chem and Chem Lab.

**Schedule Job Wizard**

*From this screen, you can save Job Parameter Sets for the Scheduler*

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chem &amp; Chem Lab</td>
<td>185112 &amp; 185112L</td>
</tr>
</tbody>
</table>

Teacher Link Group Name: 

Teacher Link Group Description:

Courses:

11. Click **Next** to move to the final tab named **Submit**.
   a. In the **Job Parameter Set Name** field enter a name.
   b. Enter an optional description in the **Job Parameter Set Description** field.
   c. Next put a check in the box next to **Set this Parameter Set as the Default Batch Parameter Set**.
   d. The next option named **Clear Schedule Result Created by the Scheduler** if checked the Batch Scheduler will undo all course section assignments previously scheduled by the Batch Scheduler and attempt to reschedule the student into the courses.
   e. If the other option named **Clear Schedule Results Created Manually** is checked the Batch Scheduler will undo any course sections assignments that were manually assigned and that originated from a request and attempt to reschedule them.
   f. Typically a school will choose to **Clear Schedule Results Created by the Scheduler** so any assignments that were made in previous runs of the Batch Scheduler are undone and rescheduled so the student gets the best possible schedule.
   g. Typically a school will not choose to **Clear Schedule Results Created Manually** because if the office staff went directly into a student’s schedule and turned a request into an assignment chances are there was a specific reason for assigning the student into that section and most likely the school doesn’t want that undone when the Batch Scheduler runs.
   h. The Batch Scheduler only looks at requests. If the office staff went directly into the **Course Section Assignments** page or the **Request Assignments** page and manually added an assignment the Batch
Scheduler will never undo that assignment. Remember the Batch Scheduler only works off requests.

**Schedule Job Wizard**

From this screen, you can save Job Parameter Sets for the Scheduler

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Is Active:</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Parameter Set Name:</td>
<td>BS All Grades</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Parameter Set Description:</td>
<td>Batch Scheduler All Grades</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Set this Parameter Set as the Default Batch Parameter Set**
- **Set this Parameter Set as the Single Student Parameter Set**

- **Clear Schedule Results Created By Scheduler**
  - If checked, the scheduler will first clear from the Schedule Result set chosen above, any assignments that were made for Requests by one or more previous scheduler runs. It will then attempt to reschedule the associated Requests.

- **Clear Schedule Results Created Manually**

i. Click **Save Schedule Parameters**.

12. The page refreshes and you are brought back to the **Job Parameter Set Maintenance** page.

**Job Parameter Set Maintenance**

From this screen, you can display, add, change and delete data pertaining to Job Parameter Sets, or Execute a Batch Scheduler Job.

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
<th>Revision</th>
<th>Default Batch</th>
<th>Single Student</th>
<th>Is Active</th>
</tr>
</thead>
<tbody>
<tr>
<td>BS All Grades</td>
<td>Batch Scheduler All Grades</td>
<td>1</td>
<td>y</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Single Student Scheduler</td>
<td></td>
<td>2</td>
<td></td>
<td>y</td>
<td></td>
</tr>
</tbody>
</table>

- **Show Active Only**

a. The parameter is listed on the page with a lock because it was marked as the **Default Batch Parameter Set**.
b. Now we are ready to run the Batch Scheduler.

**DON’T FORGET!**

Don’t forget to enter requests for lunches before running the Batch Scheduler. It is much easier to correct the issue now versus attempting to fix the issue after the Batch Scheduler has been executed multiple times.
Task #5 - Run the Batch Scheduler

Make sure you are in the correct school year before continuing. If you are scheduling for the 19/20 school year, you need to have your school year context set to 19/20. A confirmation message does display when you click the 3rd icon, Execute Job and Update Existing Schedule Result or 4th icon, Execute Job and Create New Schedule Result for a Job Parameter Set to confirm that you wish to run the Batch Scheduler for the school year in context.

If the Schedule is finalized for the school year in context on the StudentInformation Options page, these Execute icons are greyed out and you are not able to re-run the Batch Scheduler.

If the Batch Scheduler would happen to error out the error is only available off JAMS.

The Batch Scheduler will only schedule students who have an Overall Student Status of Active and have at least one course request.

Students with requests but whose Overall Student Status is a value other than Active will not be scheduled by the Batch Scheduler. If a school would like to schedule these students using the Batch Scheduler, State Support recommends temporarily changing the Overall Student Status value to Active and the changing it back after the Batch Scheduler has run.

1. At the building level in 19/20, navigate to **StudentInformation** » **Management** » **School Administration** » **Scheduling Administration** » **Scheduler** » **Job Parameter Sets**.
2. Click on the third icon named **Execute Job and Update Existing Schedule Result** of the Default Batch Scheduler Parameter created in the previous task.
   Note: When updating an existing Schedule Result, all previous Schedule Result records will be deleted, even those with a non-assigned status.
3. The page refreshes and now you are on the **Submit** tab of the job parameter.

4. In the **Master Schedule** dropdown select the Master Schedule. Typically schools will only have one Master Schedule in the dropdown.

5. In the **Schedule Result** dropdown select the schedule result you wish to work with.

6. In the **Schedule Job Name** field enter a descriptive name. State Support recommends naming the job **19/20 all grades**.

7. In the **Job Queue** dropdown select any queue listed, it doesn’t matter which one you select.

8. Since we had already placed a check in the box next to **Clear Schedule Results Created By Scheduler** when we setup the Batch Scheduler job parameter in the last task it is still checked.

9. If you need to review what this option does please refer back to Task #4 where it is explained in detail.

10. Once again make sure you are in 19/20.

11. **Click Execute Schedule Job.**

    **Schedule Job Wizard**

    From this screen, you can run the Scheduler

    | Run Level Parameters | Pass Level Parameters | Pass Control | Course Sequencing Rules | Teacher Link Groups | Submit |
    |----------------------|-----------------------|--------------|-------------------------|---------------------|--------|
    | Master Schedule: *   | Default Schedule      | Schedule Result: * | Default Schedule Result |                     |        |
    | Schedule Job Name: *  | All Grades            | Job Queue: *   | STUD - STUDENT          |                     |        |

    **Clear Schedule Results Created By Scheduler**

    If checked, the scheduler will first clear from the Schedule Result set chosen above, any assignments that were made for Requests by one or more previous scheduler runs. It will then attempt to reschedule the associated Requests.

    **Clear Schedule Results Created Manually**

    If checked, the scheduler will first clear from the Schedule Result set chosen above, any assignments that were made for Requests manually. It will then attempt to reschedule the associated Requests.

12. The page refreshes and you are brought to the **Schedule Job History** page.

13. The job will be listed as **Pending** and then change to **Active**.

14. **Click Refresh Display** until the job says **Complete**.
Task #6 - Review Batch Scheduler statistics and run reports to help resolve conflicts and verify schedules

1. On the **Schedule Job History** page, click on the Stats link for the job that just completed.
2. The page refreshes and you are brought to tab 1 named **Students Scheduled Summary** of the **Schedule Results Statistics** page.
   a. The tab details how many students were scheduled on each pass.
   b. The **Scheduled Status** column has five categories.
   c. The **Fully Scheduled** category is the number of students who had all of their requests scheduled. If a student had two requests and the Batch Scheduler was able to fill both requests the student is considered fully scheduled.
   d. The second category is named **Fully Scheduled With Request Error**.
   e. The number of students listed in this category have received a full schedule for the requests that were schedulable, but one or more of his/her requests had a problem that prevented the Batch Scheduler from trying to schedule it, e.g. no course sections were setup for the requested course.
   f. The third category is named **Partially Scheduled** is the number of students who didn’t have all their requests scheduled.
   g. The fourth category named **Not Scheduled** is the number of students who didn’t have any of their requests scheduled. Remember – only students with requests are included in the statistics. If a student doesn’t have any requests the student isn’t included in this statistic. This applies to the Total Scheduled For All Passes and Percent Scheduled For All Passes.
   h. The final category is named **Not Scheduled Due to Time Limit** is the number of students who couldn’t be scheduled because the Batch Scheduler exceeded the number of seconds filled out in the **Time Limit Per Student** field on tab 1 of the job parameter. This applies to the Total Scheduled For All Passes and Percent Scheduled For All Passes.
   i. State Support recommends scheduling these students by hand.
The page also combines all passes and lists the statistics for **Total Scheduled For All Passes** and **Percent Scheduled For All Passes**. Schedule Result Statistics

This page displays the result statistics from a scheduling job.

<table>
<thead>
<tr>
<th>Stat Type</th>
<th>Scheduled Status</th>
<th>Grade 12</th>
<th>Grade 11</th>
<th>Grade 10</th>
<th>Grade 09</th>
<th>Pass Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Scheduled For Pass 1</td>
<td>Fully Scheduled</td>
<td>87</td>
<td>156</td>
<td>211</td>
<td>232</td>
<td>686</td>
</tr>
<tr>
<td></td>
<td>Fully Scheduled With Request Error</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Partially Scheduled</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Scheduled For Pass 2</td>
<td>Fully Scheduled</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Fully Scheduled With Request Error</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Partially Scheduled</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Scheduled For Pass 3</td>
<td>Fully Scheduled</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Fully Scheduled With Request Error</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Partially Scheduled</td>
<td>167</td>
<td>44</td>
<td>23</td>
<td>2</td>
<td>176</td>
</tr>
<tr>
<td>Total Scheduled For All Passes</td>
<td>Fully Scheduled</td>
<td>87</td>
<td>156</td>
<td>211</td>
<td>232</td>
<td>686</td>
</tr>
<tr>
<td></td>
<td>Fully Scheduled With Request Error</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>Partially Scheduled</td>
<td>167</td>
<td>44</td>
<td>23</td>
<td>2</td>
<td>176</td>
</tr>
<tr>
<td></td>
<td>Not Scheduled</td>
<td>29</td>
<td>32</td>
<td>66</td>
<td>38</td>
<td>165</td>
</tr>
<tr>
<td>Percent Scheduled For All Passes</td>
<td>% Fully Scheduled</td>
<td>39.01</td>
<td>67.24</td>
<td>70.33</td>
<td>84.98</td>
<td>66.73</td>
</tr>
<tr>
<td></td>
<td>% Fully Scheduled With Request Error</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td></td>
<td>% Partially Scheduled</td>
<td>47.90</td>
<td>19.97</td>
<td>7.57</td>
<td>0.70</td>
<td>17.12</td>
</tr>
<tr>
<td></td>
<td>% Not Scheduled</td>
<td>13</td>
<td>13.79</td>
<td>22</td>
<td>13.92</td>
<td>16.05</td>
</tr>
<tr>
<td></td>
<td>% Not Scheduled Due To Time Limit</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0.37</td>
<td>0.1</td>
</tr>
</tbody>
</table>

3. The second tab is named **Students Scheduled Detail** lists the student's name and student's number for each of the five categories. If the category said zero students then the category will not listed on the **Students Scheduled Detail**.

4. The third tab is named **Course Status Messages** lists each course, course sections, group, and group section that meets the following criteria, even if there were no requests for the course:
   - Course has no Course Sections on the master schedule
   - Group has no Group Sections on the master schedule
   - Course is not Active
   - Course Has No Course Sections with Meeting Times on the Master Schedule
   - Course has no section in selected course terms

Schedule Result Statistics
This page displays the result statistics from a scheduling job.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Section</th>
<th>Group</th>
<th>Group Section</th>
<th>Message</th>
<th>Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>900110</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>920101</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>560108</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>900101</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>940313</td>
<td></td>
<td></td>
<td></td>
<td>Course has no Course Sections on the master schedule</td>
<td>No</td>
</tr>
<tr>
<td>B20133</td>
<td></td>
<td></td>
<td></td>
<td>Course has no Course Sections on the master schedule</td>
<td>No</td>
</tr>
</tbody>
</table>
5. The fourth tab is named **Request Status Messages** details the students who have request errors.
   
a. The following screenshots shows some example errors.

```
<table>
<thead>
<tr>
<th>Student</th>
<th>Course</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>15e312</td>
<td>965261</td>
<td>Student has multiple requests for the same course</td>
</tr>
<tr>
<td>152918</td>
<td>965262</td>
<td>Student has multiple requests for the same course</td>
</tr>
<tr>
<td>152918</td>
<td>A60211</td>
<td>Student has multiple requests for the same course</td>
</tr>
</tbody>
</table>
```

b. If a student has multiple requests for the same course the Batch Scheduler will not double schedule the student. If the student does need to be scheduled into the same course more than once the office staff will need to manually put the student in the course on either the **Course Section Assignments** page or the **Request Assignments** page.

6. The fifth tab named **Requests Exceeding Course Capacity** details the courses in which the number of requests for the course exceeded the capacity for the course.
   
a. In the following screenshot course 910134 has 39 requests but a capacity of 30. This statistic lets the school know they would need to increase capacity or add another section of course 910134 if they want to meet the full demand.

```
<table>
<thead>
<tr>
<th>Course</th>
<th>Requests Count</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>910134</td>
<td>39</td>
<td>30</td>
</tr>
<tr>
<td>91023</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td>A25311</td>
<td>65</td>
<td>64</td>
</tr>
<tr>
<td>B25311</td>
<td>68</td>
<td>64</td>
</tr>
</tbody>
</table>
```

7. The final tab named **Constraint Test Failures** details the number of students that couldn’t be scheduled due to **Course Sequencing Rules** that were setup, **Daily Pattern Rules, Max Course Deviation, Max Course Weight Deviation**, and **Max Periods Per Day**.
   
a. If none of these options were used when the Batch Scheduler was run each category will say zero.

b. In the following screenshot the Batch Scheduler was setup to run with Course Sequencing Rules. Two students couldn’t have all their requests fulfilled because of the course sequencing rules.
8. The **R413 Students Scheduled with Alternate Courses** report lists students who have been scheduled into their alternate course request instead of their primary course request.

9. The **R415 Student Scheduled With Free Time** report lists any open periods the student has.

a. If a student has an assignment for a period the period won’t be listed on the report. (In the example screenshot above period 00-04 isn’t listed because the student isn’t free those periods, she has assignments.)

10. The **R424 Student Scheduled in one Course Section and Not Another** generates a list of students who are scheduled into only one course for a specified pair of courses.
11. The **R425 Students Scheduled Into Two Assigned Course Sections** generates a list of students who are assigned to a specific pair of courses.

<table>
<thead>
<tr>
<th>ID</th>
<th>STUDENT NAME</th>
<th>GRS</th>
<th>G S</th>
<th>WRS</th>
<th>CRS</th>
<th>PLC</th>
<th>NPLC</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>Student1234</td>
<td>T</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2345</td>
<td>Student2345</td>
<td>F</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12. The **R426 Student Scheduling Analysis** lists each student’s requests and if they were assigned into the course or their request could not be met.

<table>
<thead>
<tr>
<th>TERM</th>
<th>COURSE</th>
<th>DESCRIPT</th>
<th>DAYS</th>
<th>PERIOD</th>
<th>STATUS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1234</td>
<td>CHEMISTRY I</td>
<td>All Full Sections</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2345</td>
<td>BIO-COLJ0US</td>
<td>All Full Sections</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

13. The **R807 Section Summary by Report Period** lists each course section and if it is open or closed.

<table>
<thead>
<tr>
<th>COURSE ID</th>
<th>COURSE DESCRIPTION</th>
<th>TERM</th>
<th>SECTION ID</th>
<th>TEACHER NAME</th>
<th>PERIODS</th>
<th>ROOM ID</th>
<th>SECTION CAPACITY</th>
<th>STUDENTS CLASS ENROLLED</th>
</tr>
</thead>
<tbody>
<tr>
<td>0123</td>
<td>ART</td>
<td>Tel</td>
<td>12345678</td>
<td>KATE Teacher</td>
<td>123</td>
<td>ABC</td>
<td>12345678</td>
<td>12345678</td>
</tr>
<tr>
<td>0234</td>
<td>MATH</td>
<td>Tel</td>
<td>87654321</td>
<td>AMY Teacher</td>
<td>234</td>
<td>DEF</td>
<td>23456789</td>
<td>23456789</td>
</tr>
</tbody>
</table>
14. The **R407 Class Master Schedule** lists each course section and group course section. The demand count on the **R407** is the number of students who have a request for the course that hasn’t been fulfilled yet.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Gr Cap</th>
<th>Demand</th>
<th>Gr Section</th>
<th>Sec Cap</th>
<th>Deman</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>140 Advanced Business</td>
<td>1.000</td>
<td>AG</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 YEAR MTWRF / 03 / 12</td>
<td>DENNIS Teacher/154</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>220 Drawing &amp; Painting II</td>
<td>0.500</td>
<td>ART</td>
<td>1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1st MTWRF / 01, 02 / 094</td>
<td>MARTHA Teacher2003</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2nd MTWRF / 08 / 094</td>
<td>MARTHA Teacher2003</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Total:** 35
Task #7 - Make applicable changes and rerun the Batch Scheduler – updating the existing schedule result set

Updating the existing schedule result set is the simplest method.

StudentInformation recommends using this option if you are new to SI scheduling. Updating the existing schedule results option keeps things simple. Users only have one result set to choose from when making schedule changes so there is no chance that schedule changes are made on the wrong schedule result set. Once you become familiar with how Batch Scheduler works you can use the other method which is to create a new result set each time next year.

A student has a request for Spanish. The Batch Scheduler is run and a student is scheduled into Spanish-1. The student then decides they don’t want to take Spanish anymore. Simply deleting the request for Spanish will not unschedule the assignment for Spanish the next time the Batch Scheduler is run, even if the option to Clear Results Created by the Scheduler is marked. The Batch Scheduler only looks at requests and if the request for Spanish is deleted but the assignment remains the Batch Scheduler will not touch the assignment for Spanish since there is no corresponding request. Both the assignment and request for Spanish should be removed/deleted.

Make sure you are in the correct school year before continuing. If you are scheduling for the 19/20 school year, you need to have your context set to 19/20. A confirmation message does display when you click the 3rd icon Execute Job and Update Existing Schedule Result or 4th icon Execute Job and Create New Schedule Result for a Job Parameter Set to confirm that you wish to run the Batch Scheduler for the school year in context.

If the Schedule is finalized for the school year in context on the StudentInformation Options page, these Execute icons are greyed out and you are not able to re-run the Batch Scheduler.
1. After fixing any conflicts, errors, adding course sections, and editing meeting times rerun the Batch Scheduler.

2. Navigate to **Student Information** » **Management** » **School Administration** » **Scheduling Administration** » **Scheduler** » **Schedule Job History**
   
a. The Batch Scheduler’s last run will appear at the top of the list.
b. Click the Rerun Job link.

Schedule Job History

- From this screen, you can view all previously run schedule jobs for the current school and school year.

<table>
<thead>
<tr>
<th>Result Set</th>
<th>Job Type</th>
<th>Job Status</th>
<th>Result Set</th>
<th>Job Type</th>
<th>Job Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>All</td>
<td>Regular</td>
<td>All</td>
<td>SSST All Grades</td>
<td>SSST All Grades</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>All</td>
<td>12/29/2016 01:49 PM</td>
<td>10</td>
<td>Batch</td>
</tr>
</tbody>
</table>

   - The Batch Scheduler’s last run will appear at the top of the list.
   - Click the Rerun Job link.
   - The page refreshes and you are brought to the **Submit** tab of the Parameter Set used in the last run.
   - The **Schedule Job Name** field is defaulting to what you filled in on your first run which was **19/20 all grades**. You can change the name to something like **19/20 all grades 2nd try** or leave it as it. Either one will work.
   - Select any queue from the **Job Queue** dropdown.
   - The **Clear Results Created By Scheduler** and **Clear Schedule Results Created Manually** will default to what was selected in the last run.
   - SI State Support recommends checking **Clear Schedule Results Created By the Scheduler** so students can get the best possible schedule.
   - Click **Execute Schedule Job**.

Schedule Job Wizard

- From this screen, you can run the Scheduler.

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Master Schedule:</td>
<td>Default Schedule</td>
<td>Schedule Result: SSST All Grades</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Schedule Job Name: SSST All Grades 2nd try</td>
<td>Job Queue: STUD-STUDENT</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- The page refreshes and you are brought back to **Schedule Job History** page.
- Click **Refresh Display** until the job completes.
Task #8 - Review Batch Scheduler statistics and run reports to help resolve conflicts and verify schedules

1. On the Schedule Job History page, click on the Stats link for the job that just completed.
2. The page refreshes and you are brought to tab 1 named Students Scheduled Summary of the Schedule Results Statistics page.
   a. The tab details how many students were scheduled on each pass.
   b. The Scheduled Status column has five categories.
   c. The Fully Scheduled category is the number of students who had all of their requests scheduled. If a student had two requests and the Batch Scheduler was able to fill both requests the student is considered fully scheduled.
   d. The second category is named Fully Scheduled With Request Error. The number of students listed in this category have received a full schedule for the requests that were schedulable, but one or more of his/her requests had a problem that prevented the Batch Scheduler from trying to schedule it, e.g. no course sections were setup for the requested course.
   e. The third category is named Partially Scheduled is the number of students who didn't have all their requests scheduled.
   f. The fourth category is named Not Scheduled is the number of students who didn't have any of their requests scheduled. Remember – only students with requests are included in the statistics. If a student doesn't have any requests the student isn't included in this statistic.
   g. The final category is named Not Scheduled Due to Time Limit is the number of students who couldn't be scheduled because the Batch Scheduler exceeded the number of seconds filled out in the Time Limit Per Student field on tab 1 of the job parameter.
   h. The page lists these statistics for each pass. The page also combines all passes and lists the statistics for Total Scheduled For All Passes and Percent Scheduled For All Passes.
3. The second tab named **Students Scheduled Detail** lists the student’s name and student’s number for each of the five categories. If the category said zero students then the category will not listed on the **Students Scheduled Detail**.

4. The third tab is named **Course Status Messages** lists each course, course sections, group, and group section that meets the following criteria, even if there were no requests for the course:
   - Course has no Course Sections on the master schedule
   - Group has no Group Sections on the master schedule
   - Course is not Active
   - Course Has No Course Sections with Meeting Times on the Master Schedule
   - Course has no section in selected course terms

### Schedule Result Statistics
This page displays the result statistics from a scheduling job

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Section</th>
<th>Group</th>
<th>Group Section</th>
<th>Message</th>
<th>Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>900110</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>920101</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>960108</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>900101</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>940313</td>
<td></td>
<td></td>
<td></td>
<td>Course has no Course Sections on the master schedule</td>
<td>No</td>
</tr>
</tbody>
</table>

5. The fourth tab is named **Request Status Messages** details the students who have request errors.
   a. The following screenshots shows example errors.

### Schedule Result Statistics
This page displays the result statistics from a scheduling job

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Section</th>
<th>Group</th>
<th>Group Section</th>
<th>Message</th>
<th>Requested</th>
</tr>
</thead>
<tbody>
<tr>
<td>900110</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>920101</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>960108</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>900101</td>
<td></td>
<td></td>
<td></td>
<td>Course Has No Course Sections with Meeting Times on the Master Schedule</td>
<td>No</td>
</tr>
<tr>
<td>940313</td>
<td></td>
<td></td>
<td></td>
<td>Course has no Course Sections on the master schedule</td>
<td>No</td>
</tr>
<tr>
<td>820133</td>
<td></td>
<td></td>
<td></td>
<td>Course has no Course Sections on the master schedule</td>
<td>No</td>
</tr>
</tbody>
</table>

b. If a student has multiple requests for the same course the Batch Scheduler will not double schedule the student. If the student does need to be scheduled into the same course more than once the office staff will need to manually put the student in the course on either the **Course Section Assignments** page or the **Request Assignments** page.

6. The fifth tab is named **Requests Exceeding Course Capacity** details the courses in which the number of requests for the course exceeded the capacity for the course.
a. In the following screenshot course H/PEII has 80 requests but a capacity of 50. This statistic lets the school know it may want to consider adding another section of course H/PEII to meet the demand.

<table>
<thead>
<tr>
<th>Course</th>
<th>Requests Count</th>
<th>Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>910134</td>
<td>39</td>
<td>30</td>
</tr>
<tr>
<td>910123</td>
<td>35</td>
<td>30</td>
</tr>
<tr>
<td>825171</td>
<td>65</td>
<td>64</td>
</tr>
<tr>
<td>825171</td>
<td>65</td>
<td>64</td>
</tr>
</tbody>
</table>

7. The final tab is named **Constraint Test Failures** details the number of students that couldn’t be scheduled due to **Course Sequencing Rules** that were setup, **Daily Pattern Rules, Max Course Deviation, Max Course Weight Deviation, and Max Periods Per Day**.

   a. If none of these options were used when the Batch Scheduler was run each category will say zero.
   
   b. In the following screenshot the Batch Scheduler was setup to run with Course Sequencing Rules. Two students couldn’t have all their requests fulfilled because of the course sequencing rules.

<table>
<thead>
<tr>
<th>Constraint Test Failures</th>
</tr>
</thead>
<tbody>
<tr>
<td>Course Sequencing Rule:</td>
</tr>
<tr>
<td>Daily Pattern Rule:</td>
</tr>
<tr>
<td>Max Course Deviation:</td>
</tr>
<tr>
<td>Max Course Weight Deviation:</td>
</tr>
<tr>
<td>Max Periods Per Day:</td>
</tr>
</tbody>
</table>

8. The **R413 Students Scheduled with Alternate Courses** report lists students who have been scheduled into an alternate course request instead of their primary course request.
9. The **R415A Student Scheduled With Free Time** report lists any open periods the student has. The **R415B Student Scheduled With Free Time by Period** report lists any open periods students have by period.

<table>
<thead>
<tr>
<th>Student Number</th>
<th>Student Name</th>
<th>Grade</th>
<th>Handicap</th>
<th>Attendance</th>
<th>Period</th>
<th>Rotation Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>10761</td>
<td>Student10161</td>
<td>A</td>
<td>F</td>
<td></td>
<td>01</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>02</td>
<td>MEWRF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>03</td>
<td>MEWRF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>06</td>
<td>MEWRF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>07</td>
<td>MEWRF</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>08</td>
<td>MEWRF</td>
</tr>
</tbody>
</table>

a. If a student has an assignment for a period the period won’t be listed on the report. (In the example R415A screenshot above period 01 isn’t listed because the student isn’t free that period, she has an assignment.)

10. The **R424 Student Scheduled in one Course Section and Not Another** generates a list of students who are scheduled into only one course for a specified pair of courses.

<table>
<thead>
<tr>
<th>ID</th>
<th>STUDENT NAME</th>
<th>OR</th>
<th>OR</th>
<th>PS</th>
<th>COUNSELLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>12090</td>
<td>Student10400</td>
<td>A</td>
<td>F</td>
<td></td>
<td>ALLEN Teacher2000</td>
</tr>
<tr>
<td>12290</td>
<td>Student10320</td>
<td>A</td>
<td>F</td>
<td></td>
<td>ALLEN Teacher2000</td>
</tr>
<tr>
<td>12316</td>
<td>Student10240</td>
<td>A</td>
<td>F</td>
<td></td>
<td>ALLEN Teacher2000</td>
</tr>
<tr>
<td>12324</td>
<td>Student10220</td>
<td>A</td>
<td>F</td>
<td></td>
<td>ALLEN Teacher2000</td>
</tr>
<tr>
<td>12329</td>
<td>Student10210</td>
<td>A</td>
<td>F</td>
<td></td>
<td>ALLEN Teacher2000</td>
</tr>
</tbody>
</table>

11. The **R425 Students Scheduled Into Two Assigned Course Sections** generates a list of students who are assigned to a specific pair of courses.

<table>
<thead>
<tr>
<th>ID</th>
<th>STUDENT NAME</th>
<th>OR</th>
<th>OR</th>
<th>PS</th>
<th>COUNSELLOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1209</td>
<td>Student10300</td>
<td>T</td>
<td>&quot;&quot;</td>
<td>&quot;&quot;</td>
<td>ALLEN Teacher2000</td>
</tr>
<tr>
<td>1209</td>
<td>Student10310</td>
<td>T</td>
<td>&quot;&quot;</td>
<td>&quot;&quot;</td>
<td>4 PSN</td>
</tr>
<tr>
<td>1210</td>
<td>Student10270</td>
<td>T</td>
<td>2</td>
<td>2 PSN</td>
<td></td>
</tr>
<tr>
<td>1214</td>
<td>Student10260</td>
<td>T</td>
<td>&quot;&quot;</td>
<td>&quot;&quot;</td>
<td>ALLEN Teacher2000</td>
</tr>
<tr>
<td>1214</td>
<td>Student10250</td>
<td>T</td>
<td>&quot;&quot;</td>
<td>&quot;&quot;</td>
<td>2 PSN</td>
</tr>
<tr>
<td>1224</td>
<td>Student10200</td>
<td>T</td>
<td>&quot;&quot;</td>
<td>&quot;&quot;</td>
<td>1 PSN</td>
</tr>
<tr>
<td>1224</td>
<td>Student10200</td>
<td>T</td>
<td>&quot;&quot;</td>
<td>&quot;&quot;</td>
<td>1 PSN</td>
</tr>
<tr>
<td>1231</td>
<td>Student10240</td>
<td>T</td>
<td>4</td>
<td>4 PSN</td>
<td></td>
</tr>
<tr>
<td>1231</td>
<td>Student10240</td>
<td>T</td>
<td>3</td>
<td>3 PSN</td>
<td></td>
</tr>
</tbody>
</table>
12. The **R426 Student Scheduling Analysis** lists each student’s requests and if they were assigned into the course or their request could not be met.

13. The **R807 Section Summary by Report Period** lists each course section and if it is open or closed.

14. The **R407 Class Master Schedule** lists each course section and group course section. The demand count on the **R407** is the number of students who have a request for the course but who didn’t get scheduled into the course when the Batch Scheduler was run.
Task #9 – Remove unwanted requests and assignments

The remove function will be the only option enabled when dropping a course if school hasn’t started. Once the first day of school arrives the drop, remove, and transfer functions will all be enabled for course sections that are in progress. If the course term hasn’t started yet, the transfer function will be disabled on the course section.

Performing a remove permanently deletes the assignment from all scheduling pages.

If an assignment is removed also ensure the request is also deleted.
Remove unwanted requests and assignments using the Request Assignments page

1. With a student in context navigate to **StudentInformation** » **SIS** » **Student** » **Student Schedule** » **Request Assignments**.  
2. Select a schedule from the **Working Schedule** dropdown and a schedule result set from the **Result**.  
3. Click on the trash can next to the assignment needing removed.  
4. The right side of the screen refreshes.  
   a. The **Remove/Delete** option is the only option available since the first day of school hasn't arrived.  
   b. When a remove is done, SI automatically assumes the student should have never been scheduled into the course and permanently deletes it.  
   c. Place a check in the box next to **Delete Request**.  
   d. Removing the assignment and deleting the request will ensure that the student will not get scheduled into the course again the next time the Batch Scheduler runs.  
   e. Click **Save**.  
   f. The following message will display, **Assignment Saved.**
Remove unwanted requests and assignments using the Course Section Assignments page

1. With a student in context navigate to StudentInformation » SIS » Scheduling » Course Section Assignments or StudentInformation » SIS » Scheduling » Requests.
2. Select a schedule from the Schedule dropdown and a schedule result set from the Schedule Result dropdown.
3. Click on the trash can next to the assignment needing removed.
4. The right side of the screen refreshes.
   a. The Remove/Delete option is the only option enabled since the first day of school hasn’t arrived.
   b. Click Save.
   c. The following message will display, The selected Course Section Assignment was marked for deletion. Click save changes button to commit to the database. Click Save Changes.
   d. The following displays, The Course Section Assignments have been successfully saved.
5. Now the request also needs deleted.
   a. Click on the trash can next to the request.
   b. Click OK to complete the deletion of the request.
Task #10 - Rerun Batch Scheduler as many times as needed

Redo Tasks #5 and #6 until the desired results are achieved.
Task #11 - Clean up students that are not fully scheduled using the Request page

1. With a student in context, navigate to **StudentInformation** » **SIS** » **Scheduling** » **Requests**.
   a. On the **Requests** page there are two dropdowns. One dropdown is for the Master Schedule and one dropdown is for the Schedule Result Set.
   b. Since in the previous tasks we have chosen to Update the Existing Result Set there is only one Result Set to choose from in the dropdown.
   c. This makes things very easy and there is no way you could accidentally make changes to a student’s schedule on the wrong result set.

   ![Screenshot of Requests page]

   - The **Status** column says **All Full Section**.
   - Click on the plus icon to the right of the request to turn the request for **SS6 – World Geography** into an assignment.
   - The page refreshes and you are brought to the **Course Section Assignments** page.
   - Enter a section # or click the Ellipse icon to choose a section number.
   - If you clicked on the Ellipse icon a new window pops up that shows you each section of the course and its capacity and filling count.

2. In the screenshot above the student’s request for **SS6 – World Geography** went unfulfilled.
   a. The **Status** column says **All Full Section**.
   b. Click on the plus icon to the right of the request to turn the request for **SS6** into an assignment.
   c. The page refreshes and you are brought to the **Course Section Assignments** page.
   d. Enter a section # or click the Ellipse icon to choose a section number.
   e. If you clicked on the Ellipse icon a new window pops up that shows you each section of the course and its capacity and filling count.
f. Click on the blue link for the section number and the section number will be automatically filled in for you.

  g. The **Assignment Start Date** field should default to the first day of school.

  h. Click **Save**.
Task #12 - Clean up students that are not fully scheduled using the Request Assignments page

Many users prefer to use the Request Assignments page versus the Requests page because on the Request Assignments page they can see requests, assignments that originated from requests, and assignments that didn’t originate from requests all on the same page.

1. With a student in context navigate to StudentInformation » SIS » Student » Student Schedule » Request Assignments.
   a. On the Student Requests & Assignments page, there are two drop downs. One drop down for the Master Schedule and one drop down for the Schedule Result Set.
   b. Since in the previous tasks we have chosen to Update the Existing Result Set, there is only one Result Set to choose from in the drop down.
   c. This makes things very easy and there is no way you could accidentally make changes to a student’s schedule on the wrong result set.

2. The student for example has a request for course 1140.
   a. The request couldn’t be turned into an assignment. Unlike the Requests page, the Request Assignments page does not tell you why the request couldn’t be fulfilled. (The Requests page notated if all course sections were full or if there was a conflict.)
   b. Click on the Edit Pencil under the Assignment column on the corresponding line for 1140.
   c. The right side of the screen does a partial refresh.

3. There are three available sections of course 1140.
   a. The flag symbol represents a scheduling conflict.
   b. The person with an X symbol represents the section is filled to capacity and scheduling the student into the section would overfill the section.
   c. Click on the Assign icon to the left of section 30 to assign the student into section 30.
   d. The right side of the screen refreshes again and the following is displayed.
   e. In the Assignment Start Date field defaults to the first day of the course term.
   f. Click Save Assignment.
   g. The following warning message will appear since the section would cause a scheduling conflict and/or would be overfilled.
If you have security permissions to override and allow course section conflicts, the Save Assignment button will be enabled. If you don’t have permission to override you will need to select Cancel and choose another course section.

The assignment for 1140-30 appears on the same line as the request for 1140. This is how you can tell an assignment originated from a request, because they appear on the same line.

4. Now, a different student has a request for course 1011 and an assignment for course section 1011-1.
   a. The assignment doesn’t appear on the same line as the request. Since they don’t appear on the same line I can tell this course didn’t originate from a request. The course section assignment was directly added to the student’s schedule.
   b. If the school would run the Batch Scheduler again the Batch Scheduler would try to schedule the student’s request for course 1011 since the request is still unfulfilled.
   c. The school should delete the request for course 1011 so the student doesn’t get double scheduled into course 1011. If they don’t delete the request the student could be assigned once manually by a user and another time by the Batch Scheduler.
   d. To delete a request click on the Edit Pencil to the left of the request for 1011.
   e. The right side of your screen refreshes.
   f. Click Delete Request.
   g. The page refreshes.
   h. Uncheck Show Active Only.
   i. The inactivated request for course 1011 will now show since Show Active only was unchecked.
   j. The Batch Scheduler will not attempt to schedule the student into course 1011 since the request is now inactive.

5. The Batch Scheduler only schedules active requests. The Request Assignments page has several other helpful features.
   a. One of those features is the Schedule Graph.
   b. Click View Schedule Graph in the upper right corner of the Request Assignments page.
c. The bottom of the page refreshes and a graph is displayed.

d. The Schedule Graph is a great tool for telling which periods are open with quick glance.
e. In the screenshot above the student has an opening All Year Period 0, 1<sup>st</sup> Semester Period 1, 2<sup>nd</sup> Semester Period 6 & All Year Period 08.
f. The Schedule Graph is also useful for determining if the student’s schedule has any conflicts.

<table>
<thead>
<tr>
<th>#</th>
<th>Course</th>
<th>Course Name</th>
<th>Section</th>
<th>Meeting</th>
<th>Teacher</th>
<th>Term</th>
<th>Type</th>
<th>Status</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>8000</td>
<td>CERAMICS &amp; SCULPTURE</td>
<td>12</td>
<td>01</td>
<td>[Blank]</td>
<td>2nd Semester Course</td>
<td>Batch</td>
<td>Assigned</td>
<td>Jan 03, 2017</td>
</tr>
<tr>
<td>2</td>
<td>4200</td>
<td>BIOLOGY</td>
<td>21</td>
<td>02</td>
<td>[Blank]</td>
<td>All Year Course</td>
<td>Batch</td>
<td>Assigned</td>
<td>Aug 15, 2016</td>
</tr>
<tr>
<td>3</td>
<td>3180</td>
<td>Honors Algebra I</td>
<td>30</td>
<td>03</td>
<td>[Blank]</td>
<td>All Year Course</td>
<td>Batch</td>
<td>Assigned</td>
<td>Aug 15, 2016</td>
</tr>
<tr>
<td>5</td>
<td>6120</td>
<td>FRENCH I</td>
<td>40</td>
<td>04</td>
<td>[Blank]</td>
<td>All Year Course</td>
<td>Batch</td>
<td>Assigned</td>
<td>Aug 15, 2016</td>
</tr>
</tbody>
</table>

The student in the above example has a conflict 3rd Period. She was scheduled into two courses this period.

h. She has an assignment for course section 3180-30 and course section 1140-30.

i. The Batch Scheduler will not give a student an assignment for a course section in a period where the student already has an assignment. One of these assignments was manually assigned by a user and the user chose to override the conflict.

j. One way to double check if an assignment was manually assigned or assigned by the Batch Scheduler is to look at the Course Section Assignments page.

k. On the Course Section Assignments page course 3180-30 has a Status of Batch and course 1140-30 has a Status of Manual.

l. Conclusion: The Batch Scheduler scheduled the student into 3180-30 but the office staff scheduled the student into 1140-30 and created the conflict.
Task #13 - Run Study Hall Wizard to fill in the student’s open periods with study halls

Don’t run the Study Hall Wizard until all of the following conditions are met:

✓ You are sure the Batch Scheduler no longer needs run.
✓ You are satisfied with the results of the Batch Scheduler.
✓ You’ve resolved the majority of student’s conflicts.
✓ You are ready to fill in the rest of the student’s open periods with study halls.

The Study Hall Wizard will only schedule students into study halls if they have an Overall Student Status of Active and they must have at least one course request.

Student must have at least one course request or course section assignment to be scheduled into study halls by the Study Hall Wizard.

The Study Hall Wizard can be run multiple times. Unfortunately there is no easy way to clear all assignments for study halls if the Study Hall Wizard was run prematurely.

The Study Hall Wizard can be run on multiple result sets. If the school isn’t sure which result set they will finalize they can run the Study Hall Wizard on both result sets. In other words, the Schedule doesn’t have to be finalized in SI Options in order for the Study Hall Wizard to be run.
Make sure you are in the correct school year before proceeding. If you are scheduling for the 19/20 school year you need to have your context set to 19/20.

The Study Hall Wizard can be accidentally run in 18/19. Be very careful and make sure you are in the correct school year before proceeding.

1. Before running the Study Hall Wizard, navigate to StudentInformation » Management » School Administration » Scheduling Administration » Course Maintenance » Courses.
   a. Check each study hall to make sure it has a Course Type of Study Hall.
   b. The Course Type field can be found on the Miscellaneous tab of each study hall.
   c. The Study Hall Wizard only looks at Course Type equal to Study Hall.
   d. The Study Hall Wizard can be run to look at the Grade Levels Selected on the Miscellaneous tab of the study hall. If the school would like to enforce grade levels ensure the Grade Levels Selected is properly setup for each study hall. If the school doesn't want to enforce grade levels on the study halls then there is no need to verify these fields at this time.
Note: The selected Grade Levels on the Course load into GradeBook and are used for setting up Standard Based Report Cards.

2. Now navigate to **Student Information ➔ Management ➔ School Administration ➔ Scheduling Administration ➔ Scheduler ➔ Study Hall Wizard**.

3. In the **Max Consecutive Study Halls** field enter the number of study halls students are allowed to have back to back.
   a. If your school only allows students to have 2 study halls in a row enter 2 in the field.

4. In the **Section Overfill Percent** enter the amount you would like the study halls to be overfilled.
   a. If you don’t want the study halls overfilled leave the field blank.

5. Next, in the **Sort Params Sort Order** section filter on which students you would like the Study Hall Wizard to schedule first.
   a. Multiple sort criteria can be pulled over to the right but the sort criteria is applied in order from top to bottom.
   b. If **Grade Level ASC** is chosen SI will attempt to schedule the lowest grade level first.
   c. If **Grade Level DESC** is chosen SI will attempt to schedule the highest grade level first.
   d. In other words if you want the Study Hall Wizard to schedule study halls for 12th graders before scheduling the other grade levels choose **Grade Level DESC**.
   e. If it doesn’t matter which grade level gets scheduled first choose **Student Random**.
   f. Do not select both **Grade Level ASC** and **Grade Level DESC**.
   g. If **Student Name ASC** is chosen students with last names starting with A are scheduled before students with last names that begin with B.
   h. If **Student Name DESC** is chosen students with last names starting with W are scheduled before students with last names that begin with T for example.
   i. If it doesn’t matter which students are scheduled first choose **Student Random**.
   j. If **Student Number ASC** is chosen students with the lowest student numbers will be scheduled first.
   k. Example: student #10029 will be scheduled before student #10041.
   l. If **Student Number DESC** is chosen students with the highest student numbers will be scheduled first.
   m. If it doesn’t matter which students are scheduled first choose **Student Random**.
   n. If **Student Schedule Priority** is chosen the Batch Scheduler will look the **Scheduling Priority** field on the Additional tab of each student’s profile.
   o. The **Scheduling Priority** field defaults to 5 upon registration and isn’t a field that is commonly used in SI. This field is only used when running the Batch Scheduler or Study Hall Wizard.
Most schools will not choose to schedule study halls by **Scheduling Priority**.

If your school does choose to schedule study halls by **Scheduling Priority** you can use **SIS Student Search** to create a list of each student’s scheduling priority.

Navigate to **Student Information » EZ Query » Reports » SIS Student Search** to create the list.

If **Student Requesting Group** is chosen the Study Hall Wizard will attempt to schedule students who have requests for course groups before students without requests for course groups.

If the school would like to enforce grade levels that were selected on the **Miscellaneous** tab of each study hall put a check in the box next to **Enforce Study Hall Grade Levels**.

In the **Grade Levels to Schedule** pull over the appropriate grade levels to the right.

If the school would like to run the Study Hall Wizard for a grade level at a time just pull over one grade level and run the Study Hall Wizard and then repeat the process for the next grade level.

If the school would like to allow study halls first period put a check in the box next to **Permit First Period Study Halls**.

If the school would like to allow study halls before lunch place a check in the box next to **Permit Study Hall Before Lunch**.

If the school would like to allow study halls to be scheduled last period place a check in the box next to **Permit Last Period Study Hall**.

If the school would like to allow study halls after lunch, place a check in the box next to **Permit Study Hall After Lunch**.

**Study Hall Wizard**

From this screen, you can define the rules used by the study hall scheduler when assigning students to study halls.

**Study Hall Parameters**

Max Consecutive Study Halls: 2

Section Overflow Percent: 5

Sort Params Sort Order: Student Number ASC

**Enforce Study Hall Grade Levels:**

**Grade Levels to Schedule:**

- 05 - 05
- 06 - 06
- 13 - 13
- 11 - 12
- 10 - 10
- 11 - 11

**Permit First Period Study Hall**

**Permit Study Hall Before Lunch**

**Permit Last Period Study Hall**

**Permit Study Hall After Lunch**

12. Click **Next** to move to the **Execute Job** tab.

   a. Select a **Schedule** from the dropdown.

   b. Next select a **Schedule Result** from the dropdown.
c. The **Schedule Job Name** field defaults to **Study Hall**. You can change the name of leave it as is.

d. Select any queue from the **Job Queue** dropdown. (It doesn't matter which one you select.)

e. Make sure you are in 19/20.

f. Click **Submit**.

g. The following message will be displayed on the screen.

Study Hall Wizard

> From this screen, you can define the rules used by the study hall scheduler when assigning students to study halls.

<table>
<thead>
<tr>
<th>Study Hall Parameters</th>
<th>Execute Job</th>
</tr>
</thead>
<tbody>
<tr>
<td>Schedule: * Default Schedule</td>
<td></td>
</tr>
<tr>
<td>Schedule Result: * Default Schedule Result</td>
<td></td>
</tr>
<tr>
<td>Schedule Job Name: * Study Hall</td>
<td></td>
</tr>
<tr>
<td>Job Queue: * EMIST - EMIS Transfer</td>
<td></td>
</tr>
</tbody>
</table>

- **Submit**
- **< Back**

13. Now navigate to **StudentInformation » Management » School Administration » Scheduling Administration » Scheduler**

- **Schedule Job History** to check the status of the Study Hall Wizard job.

  a. In the **Job Type** dropdown choose **Study Hall Batch**.

  b. Click **Refresh Display**.

Schedule Job History

> From this screen, you can view all previously run schedule jobs for the current school year.

**Add Schedule Job**

<table>
<thead>
<tr>
<th>Job Name</th>
<th>Schedule Result Set</th>
<th>Run Time</th>
<th>Duration (min)</th>
<th>Job Type</th>
<th>Status</th>
<th>Username</th>
</tr>
</thead>
<tbody>
<tr>
<td>Study Hall</td>
<td>Default Schedule Result</td>
<td>08/15/2016 01:25 PM</td>
<td>1</td>
<td>Study Hall Batch</td>
<td>Complete</td>
<td></td>
</tr>
</tbody>
</table>

- The job will be listed as **Pending** and then change to **Active**.

- Click **Refresh Display** until the job says **Complete**.

- Click on the Stats link.

14. The page refreshes and the **Student Study Halls Scheduled – Summary** tab is displayed.

- The statistics summarize how many students in each grade level were assigned study halls.

Schedule Result Statistics

> This page displays the result statistics from a scheduling job.

<table>
<thead>
<tr>
<th>Student Study Halls Scheduled - Summary</th>
<th>Student Study Halls Scheduled - Detail</th>
<th>Study Hall Constraint Test Failures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Student Type</strong></td>
<td><strong>Scheduled Status</strong></td>
<td><strong>Grade 12</strong></td>
</tr>
<tr>
<td>------------------</td>
<td>----------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Total Study Halls Scheduled</td>
<td>Students Scheduled In One or More Study Halls</td>
<td>132</td>
</tr>
<tr>
<td></td>
<td>Students Not Scheduled In Any Study Halls</td>
<td>2</td>
</tr>
<tr>
<td>Percent Study Halls Scheduled</td>
<td>% Students Scheduled In One or More Study Halls</td>
<td>98.51</td>
</tr>
<tr>
<td></td>
<td>% Students Not Scheduled In Any Study Halls</td>
<td>1.49</td>
</tr>
</tbody>
</table>
b. Next click on the 2nd tab named **Student Study Halls Scheduled – Detail**.
The 2nd tab lists each student and how many study halls they received.

### Schedule Result Statistics

This page displays the result statistics from a scheduling job.

<table>
<thead>
<tr>
<th>Student Study Halls Scheduled - Summary</th>
<th>Student Study Halls Scheduled - Detail</th>
<th>Study Hall Constraint Test Failures</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Scheduled Status</strong></td>
<td><strong>Study Halls Scheduled</strong></td>
<td><strong>Student Number</strong></td>
</tr>
<tr>
<td>Students Scheduled in One or More Study Halls</td>
<td>7</td>
<td>27275</td>
</tr>
<tr>
<td>7</td>
<td>22</td>
<td>Katherine 12</td>
</tr>
<tr>
<td>3</td>
<td>13</td>
<td>Gregory 12</td>
</tr>
<tr>
<td>4</td>
<td>300671</td>
<td>Garrett 12</td>
</tr>
<tr>
<td>1</td>
<td>99977</td>
<td>Andrew 12</td>
</tr>
<tr>
<td>3</td>
<td>30045</td>
<td>Grant 12</td>
</tr>
</tbody>
</table>

15. The third tab is named **Study Hall Constraint Failures** summarizes how many students were scheduled into consecutive study halls, received a study hall 1st period, received a study hall before lunch, received a study hall after lunch, or received a study hall last period.

### Schedule Result Statistics

This page displays the result statistics from a scheduling job.

| Max Consecutive Study Halls: | 107 |
| Permit First Period Study Hall: | 0 |
| Permit Last Period Study Hall: | 0 |
| Permit Before Lunch Study Hall: | 0 |
| Permit After Lunch Study Hall: | 0 |

16. The next screen shot is of a student's **Course Section Assignments** page.
a. The student was scheduled into two study halls.

b. The student still has a couple of open periods. The **Schedule Graph** on the Request Assignments page is an excellent tool in determining which periods the student has open at a glance.

c. The student has Periods 8 and 9 open all year.

d. The school could also run the **R415 Student Scheduled With Free Time** report that will list any open periods the student has.
Task #14 - Print Schedule Cards (R701)

Custom R701 formats aren’t currently available.

1. To print Schedule Cards navigate to **StudentInformation** » **SIS** » **Scheduling** » **Scheduling Reports** » **Schedule Card Formatter (R701)**.

2. In the Report Layout dropdown, select a format. The following table will guide you in your format selection.

   **Note:** The Print Two Students Per Page option is on formats 2, 3, 12, 13, 22, and 23.

<table>
<thead>
<tr>
<th>Format</th>
<th>Orientation</th>
<th>Print Request Status?</th>
<th>Print Locker or Combo?</th>
<th>Print Fees?</th>
<th>Notes</th>
</tr>
</thead>
</table>
| 1      | Landscape   | Yes                   | Yes – no combo         | No          | - Only format to print request status  
|        |             |                       |                        |             | - When printing, choose Page Scaling = Fit to Printable Area |
| 2      | Portrait    | No                    | Yes – no combo         | No          | - Very similar to format 2; smaller print  
|        |             |                       |                        |             | - Prints student number |
| 3      | Portrait    | No                    | Yes (both)             | No          | - 2 schedule cards for the same student per page  
|        |             |                       |                        |             | - Prints student SSN |
| 4      | Landscape   | No                    | Yes – no combo         | No          | - 2 schedule cards for the same student per page  
|        |             |                       |                        |             | - Very similar to format 4 except for placement of several small items |
| 5      | Landscape   | No                    | Yes – no combo         | No          | - Can project fees if fees haven’t been assigned  
|        |             |                       |                        |             | - Prints program |
| 6      | Landscape   | No                    | Yes (both)             | Yes         | - Same as format 3 |

*Note on Format 6:* Font size is 8.5 and will accommodate 17 assignments on a single page with default margins of 0.4. For students with 17 assignments (or more), the common text will print on the 2nd page. A single page can accommodate more assignments by reducing the top and bottom margins or using the Adobe Page Scaling setting of “Fit to Printable Area” or “Shrink to Printable Area”.

<table>
<thead>
<tr>
<th>Format</th>
<th>Orientation</th>
<th>Print Request Status?</th>
<th>Print Locker or Combo?</th>
<th>Print Fees?</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td></td>
<td></td>
<td></td>
<td>Same as format 1</td>
<td></td>
</tr>
</tbody>
</table>
| 12     | Portrait    | No                    | Yes (both)             | No          | - Similar to format 2  
|        |             |                       |                        |             | - Prints program  
<p>|        |             |                       |                        |             | - Does not print gender or homeroom |
| 13     |             |                       |                        | Same as format 3 |       |
| 14     |             |                       |                        | Same as format 4 |       |</p>
<table>
<thead>
<tr>
<th></th>
<th>Landscape</th>
<th>No</th>
<th>Yes (both)</th>
<th>Yes</th>
<th>Same as format 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Landscape</td>
<td>No</td>
<td>Yes (both)</td>
<td>Yes</td>
<td>Same as format 5</td>
</tr>
</tbody>
</table>
| 16 | Landscape | No | Yes (both) | Yes | - Can project fees if fees haven't been assigned
|    |          |    |            |     | - Very similar to format 6
|    |          |    |            |     | - Prints student SSN
| 17 |          |    |            |     | Similar to format 13
|    |          |    |            |     | - Footer contains school’s return address and parent’s mailing address for use with self sealing paper (mailer)

3. Next, select a Schedule and Schedule Result from the dropdowns.
4. Select the desired filters for grade level, course terms, etc.
5. To print Schedule Cards to hand out to students choose the following parameters.

<table>
<thead>
<tr>
<th>Suppress Requests That Have No Matching Assignment:</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position For Requests That Have No Matching Assignment:</td>
<td>Before</td>
<td></td>
</tr>
<tr>
<td>Suppress Results That Have No Assignment:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Position Of Results That Have No Assignment:</td>
<td>Before</td>
<td></td>
</tr>
<tr>
<td>Print Only Schedules With Results That Have No Assignment:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Print Schedules Changed After Date:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

6. To print Schedule Cards to show all the requests the Batch Scheduler assigned and the requests the Batch Scheduler attempted to assign but couldn't choose the following parameters.

<table>
<thead>
<tr>
<th>Suppress Requests That Have No Matching Assignment:</th>
<th>Yes</th>
<th>No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Position For Requests That Have No Matching Assignment:</td>
<td>Before</td>
<td></td>
</tr>
<tr>
<td>Suppress Results That Have No Assignment:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Position Of Results That Have No Assignment:</td>
<td>Before</td>
<td></td>
</tr>
<tr>
<td>Print Only Schedules With Results That Have No Assignment:</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Print Schedules Changed After Date:</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

7. To print Schedule Cards to see which students have unapproved requests choose the following parameters.
To print Schedule Cards for only students who still have unfulfilled requests, choose the following parameters.

a. Note the Schedule Cards can be run with this option before the Batch Scheduler is even executed.

**Note:** As of StudentInformation 16.0.0, the Load Settings tab has the option to select **Private** to make the report unavailable on the I Want To … menu or select **Available In “I Want To” Menu** to list the report on the the I Want To … menu. This setting cannot be changed. The report must be deleted and re-created to change the privacy setting.
Appendix A: - How to schedule one grade level at a time updating the same schedule result set each time.

1. Follow the steps in **Task #4 Configure Batch Scheduler job parameter to schedule the entire school** except in **step #6a** in the **Grade Levels to Schedule** filter pull over the grade level you would like to schedule first.

   **Schedule Job Wizard**

   From this screen, you can save Job Parameter Sets for the Scheduler

   ![Schedule Job Wizard](image)

   **Note:** Sort Criteria chosen in the right list box, are applied in order from top to bottom, when ordering the students who are to be scheduled.

   **Sort Criteria for Students who are being Scheduled:**

   - Student Number ASC
   - Student Number DESC
   - Student Schedule Priority
   - Grade Level DESC

   **Grade Levels to Schedule:**

<table>
<thead>
<tr>
<th>05 - 05</th>
<th>06 - 06</th>
<th>07 - 07</th>
<th>08 - 08</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 - 12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   **Course Terms to Schedule:**

   - 1st Semester Course
   - 2nd Semester Course
   - All Year Course

   **Note:** Sort Criteria chosen in the right list box, are applied in order from top to bottom, when ordering the students who are to be scheduled.

   **Sort Criteria for Students who are being Scheduled:**

   - Student Number ASC
   - Student Number DESC
   - Student Schedule Priority
   - Grade Level DESC

   **Grade Levels to Schedule:**

<table>
<thead>
<tr>
<th>05 - 05</th>
<th>06 - 06</th>
<th>07 - 07</th>
<th>08 - 08</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>12 - 12</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

   **Course Terms to Schedule:**

   - 1st Semester Course
   - 2nd Semester Course
   - All Year Course

   **Time Limit Per Student:** 60

   ![Next > button](image)

   a. Continue on with the remainder of the steps in **Task #4**.

2. Now, follow the steps in **Task #5 Run the Batch Scheduler** except in **step #8** SI State Support recommends naming the Schedule Job Name **One grade at a time**.

   a. Continue following the remainder of the steps in **Task #5 Run the Batch Scheduler**.

3. Follow all steps in **Task #6 Review Batch Scheduler statistics and run reports to help resolve conflicts and verify schedules**.

4. Run the Batch Scheduler for the same grade level again if needed until the desired results for that grade level are achieved.

5. After the Batch Scheduler has completed and the student’s schedules are the way you want them you can now schedule another grade level.

6. Follow the steps in **Task #5 again except before clicking on the Execute Job and Update Existing Schedule Result** in step #2 click on the Edit Pencil icon to edit the job parameter set.

   a. In the **Grade Levels to Schedule** filter clear the filter and select the next grade level to be scheduled.
b. After the Batch Scheduler has completed and the student’s schedules are the way you want them you can now schedule another grade level.

7. Now go edit the job parameter again and clear out the filter and select the next grade level to be scheduled.

8. Continue the process until all the desired grade levels have been scheduled.
Appendix B - How to run the Batch Scheduler creating a new result set each time.

This method is more complicated than it appears and extreme caution is advised before attempting to schedule using this method.

When it comes time to finalize the 19/20 schedule, only one schedule result set can be chosen from the dropdown in SI Options.

1. Complete Tasks 1-6 in this checklist.
2. Once you are ready to run the Batch Scheduler for the 2nd time navigate to StudentInformation » Management » School Administration » Scheduling Administration » Scheduler » Job Parameter Sets.
3. Click on the 4th icon Execute Job and Create New Schedule Result of the job parameter you wish to rerun.
   a. You will be brought to the Submit tab.
   b. In the Master Schedule dropdown choose a master schedule. Most schools will only have one master schedule in the dropdown.
   c. In the New Schedule Result Name field enter a descriptive name that will help you and other users remember which schedule result set is the latest and greatest.
   d. Some suggested names are 2nd try all grades, added 1 sec of 1912, or Add Art1 2/12 9:29.
e. The more descriptive you are with the **Schedule Result Name** the less likely you another user will accidentally pick the wrong one and begin making schedule changes on the wrong result set.

f. Enter an optional description in the **New Schedule Result Description**.

g. Since we have already run the Batch Scheduler once we have the option of copying the results from the first run into the 2nd run.

h. In the **Copy from Existing Schedule Result Set** dropdown choose the schedule result you created in the first run.

i. Now you have the option of which course section assignments from the result set you want to copy to the new result set.

j. SI State support recommends only choosing to place a checkbox in **Copy Schedule Results Created Manually**.

k. By choosing to copy the results that were scheduled manually the new schedule result set will contain all the assignments with a **Type of Manual** from the original result set. This means any assignment that was directly added to a student’s schedule and any request that was manually turned into an assignment will be copied to the new result set.

l. If **Copy Schedule Results Created by the Batch Scheduler** is checked all the course section assignments with the **Type of Batch** will be copied to the new result set. SI State Support recommends leaving this option unchecked.

m. If **Copy Schedule Results Created by the Single Student Scheduler** is checked all course sections assignments with the **Type of Online** will be copied to the new result set. SI State Support recommends leaving this option unchecked.
n. In the **Schedule Job Name** field enter a descriptive name. SI State Support recommends just copying the same name you entered in the **New Schedule Result Name** in step #3c above.

**Schedule Job Wizard**

From this screen, you can run the Scheduler

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
</table>

**Master Schedule:** Default Schedule

**New Schedule Result Name:**

- 2nd run 2/12 11:20
- **New Schedule Result Description:**

**Copy from existing Schedule Result set:**

- **Check one or more of the boxes below, in order to copy assignments from the existing Schedule Result set chosen in the dropdown at left, to the new Schedule Result set.**

- **Copy Schedule Results Created Manually**
- **Copy Schedule Results Created by the Batch Scheduler**
- **Copy Schedule Results Created by the Single Student Scheduler**

**Schedule Job Name:** 2nd run 2/12 11:20

- **Job Queue:** EMIST - EMIS Transfer

- **Execute Schedule Job**

- **Back**

- **Cancel**

o. In the **Job Queue** dropdown select a queue. It doesn’t matter which one you select.

p. Click **Execute Schedule Job**.

4. Now, follow the steps in **Task #8 Review Batch Scheduler statistics and run reports to help resolve conflicts and verify schedules**.

5. When you are finished making adjustments to the master schedule and requests and are ready to rerun the Batch Scheduler by following steps 2, 3, and 4 again of **Appendix B** until you achieved the desired scheduling results.

6. Once you are satisfied with results of the Batch Schedule and wish to start making manual adjustments to student’s schedules continue on with **Tasks #10-13** to finish out the scheduling process.
Appendix C - How to run the Batch Scheduler for one grade level at a time creating a new result set each time.

This method is more complicated than it appears and extreme caution is advised before attempting to schedule using this method.

When it comes time to finalize the 19/20 schedule only one schedule result set can be chosen from the dropdown in SI Options.

Please make sure you do not create a separate result set for each grade level. Please make sure you are copying the results from a previous run to the new run.

*The Key to Success:* If you are choosing to schedule one grade level at a time and create a new result set each time the key to success is to schedule one grade level, then schedule the next grade level and copy the scheduling results from the 1\textsuperscript{st} grade level to the 2\textsuperscript{nd} grade level. Once you’ve achieved the desired results with the 2\textsuperscript{nd} grade level then schedule the 3\textsuperscript{rd} grade level and copy the scheduling results from the result set that has the first two grade levels combined and so on.
1. Complete Tasks 1-3 in this checklist.

2. Follow the steps in **Task #4 Configure Batch Scheduler job parameter to schedule the entire school** except in **step #6a** in the **Grade Levels to Schedule** filter pull over the grade level you would like to schedule first.

**Schedule Job Wizard**

*From this screen, you can save Job Parameter Sets for the Scheduler*

<table>
<thead>
<tr>
<th>Run Level Parameters</th>
<th>Pass Level Parameters</th>
<th>Pass Control</th>
<th>Course Sequencing Rules</th>
<th>Teacher Link Groups</th>
<th>Submit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grade Levels to Schedule:</td>
<td>Pass Level Parameters</td>
<td>Pass Control</td>
<td>Course Sequencing Rules</td>
<td>Teacher Link Groups</td>
<td>Submit</td>
</tr>
<tr>
<td>05 - 05</td>
<td>12 - 12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>06 - 06</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>07 - 07</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>08 - 08</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Course Terms to Schedule:**
- 1st Semester Course
- 2nd Semester Course
- All Year Course

1. **Note:** Sort Criteria chosen in the right list box, are applied in order from top to bottom, when ordering the students who are to be Scheduled.

<table>
<thead>
<tr>
<th>Sort Criteria for Students who are being Scheduled:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Student Number ASC</td>
</tr>
<tr>
<td>Student Schedule Priority</td>
</tr>
</tbody>
</table>

**Section Overfilled Percent:** 5%

**Course Group Locking:** Honor Course Group Locks

**Balance By Ethnicity:** No Balancing

1. **Note:** The Time Limit Per Student value determines the maximum number Of seconds that the scheduler will Try To schedule Each student.

**Time Limit Per Student:** 80

3. Continue on with the remainder of the steps in **Task #4**.

4. Complete the steps in **Task #5 Run the Batch Scheduler** and **Task #6 Review Batch Scheduler statistics and run reports to help resolve conflicts and verify schedules**.

5. Once you are ready to run the Batch Scheduler for the 2nd time navigate to **StudentInformation » Management » School Administration » Scheduling Administration » Scheduler » Job Parameter Sets**.
   a. Click on the Edit Pencil icon of the job parameter you ran previously.
   b. On the **Pass Level Parameters** tab clear out the **Grade levels to Schedule** filter and pull over the next grade level to the right that you want to schedule.
   c. Now flip to the **Submit** tab and click **Save Schedule Parameter**.
   d. The page will refresh and you will be brought back to the **Job Parameter Sets** page.

6. Click on the 4th icon **Execute Job and Create New Schedule Result** of the job parameter set you just edited.
   a. You will be brought to the **Submit** tab.
   b. In the **Master Schedule** dropdown choose a master schedule. Most schools will only have one master schedule in the dropdown.
c. In the **New Schedule Result Name** field enter a descriptive name that will help you and other users remember which schedule result set is the latest and greatest.
d. Some suggested names are **12 + 11 1st try, 11th and 12th #1**, or **add 11th to 12th**
e. The more descriptive you are with the **Schedule Result Name** the less likely you another user will accidentally pick the wrong one and begin making schedule changes on the wrong result set.
f. Enter an optional description in the **New Schedule Result Description**.
g. Since we have already run the Batch Scheduler once we have the option of copying the results from the first run into the 2nd run.
h. In the **Copy from Existing Schedule Result Set** dropdown choose the schedule result you created in the first run.
i. Now you have the option of which course section assignments from the original result set you want to copy to the new result set.
j. Since all the course section assignments for the first grade level are contained in the first result set we would want to put a check in all three boxes.
k. **Copy Schedule Results Created Manually** will copy all assignment with a **Type of Manual**. This means any assignment that was directly added to a student’s schedule and any request that was manually turned into an assignment will be copied to the new result set.
l. **Copy Schedule Results Created by the Batch Scheduler** will copy all the course section assignments with the **Type of Batch** to the new result set.
m. **Copy Schedule Results Created by the Single Student Scheduler** will copy all course sections assignments with the **Type of Online** to the new result set.

<table>
<thead>
<tr>
<th>Course</th>
<th>Course Name</th>
<th>Section</th>
<th>Meeting</th>
<th>Teacher</th>
<th>Term</th>
<th>Type</th>
<th>Status</th>
<th>Start Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>4010</td>
<td>MODERN WORLD HISTORY</td>
<td>1</td>
<td>1 (134)</td>
<td></td>
<td>All Year</td>
<td>Online</td>
<td>Assigned</td>
<td>Aug 29, 2016</td>
</tr>
<tr>
<td>HR HOME</td>
<td>HR HOME ROOM</td>
<td>39</td>
<td>HR (204)</td>
<td></td>
<td>All Year</td>
<td>Manual</td>
<td>Assigned</td>
<td>Aug 29, 2016</td>
</tr>
<tr>
<td>7513</td>
<td>CAREER &amp; LIFE PLANNING</td>
<td>2</td>
<td>2 (108)</td>
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<td>2nd Sem</td>
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</tr>
<tr>
<td>9210</td>
<td>SCULPTURE &amp; CERAMICS I</td>
<td>2</td>
<td>3 (110)</td>
<td></td>
<td>All Year</td>
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<td>Assigned</td>
<td>Aug 29, 2016</td>
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<tr>
<td>2120</td>
<td>CP MATH I</td>
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<td>3 (203)</td>
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<td>Assigned</td>
<td>Aug 29, 2016</td>
</tr>
<tr>
<td>LUNCH1</td>
<td>LUNCH TERM 1</td>
<td>4</td>
<td>4 (156A)</td>
<td></td>
<td>1st Sem</td>
<td>Batch</td>
<td>Assigned</td>
<td>Aug 29, 2016</td>
</tr>
</tbody>
</table>

n. In the **Schedule Job Name** field enter a descriptive name. SI State Support recommends just copying the same name you entered in the **New Schedule Result Name** in step #6c above.
o. In the **Job Queue** dropdown select a queue. It doesn’t matter which one you select.
p. Click **Execute Schedule Job**.
7. Now follow the steps in Task #8 **Review Batch Scheduler statistics and run reports to help resolve conflicts and verify schedules.**

8. When you are finished making adjustments to the master schedule and requests and are ready to rerun the Batch Scheduler by following steps 5 and 6 again of **Appendix C** until you achieved the desired scheduling results.

9. Once you are satisfied with results of the Batch Scheduler and wish to start making manual adjustments to student’s schedules continue on with **Tasks #10-13** to finish out the scheduling process.
Appendix D - How to create multiple master schedules and run the Batch Scheduler for multiple master schedules.

This method is more complicated than it appears and extreme caution is advised before attempting to schedule using this method.

Why would you want to create multiple master schedules?
Example: Your school has a levy on the ballot in May. The district is not sure if the levy will pass or not. If the levy doesn't pass the district will need to lay off 5 teachers and eliminate 30 course sections. The first master schedule would contain all the course sections if the levy passes and the school could schedule students using the Batch Scheduler or manually using the 1st master schedule and result set. The 2nd master schedule wouldn't contain the 30 course sections that will be eliminated if the levy doesn't pass. The school could schedule students using the Batch Scheduler or manually using the 2nd master schedule and result set.

1. To create a 2nd master schedule navigate to **StudentInformation**  
   » **Management**  » **School Administration**  » **Scheduling Administration**  » **Initialization**  » **Master Schedule**.
   a. Click the double paper icon of the **Default Schedule** to copy the schedule.
   b. The **Name** field defaults to **Copy of Default Schedule**.
   c. SI State Support recommends changing the name to be more descriptive. Example: **Schedule if levy doesn't pass**.
   d. Click **Save**.
   e. Change the wording in the Description field to match the new name of the master schedule.
   f. Leave the **Copy Result Set** dropdown empty.
g. In the **Copy Options** section choose to copy **Course Sections** and **Course Group Sections**.

h. Click **Save**.

2. Next we will delete the 30 course sections that are being eliminated if the levy doesn’t pass.
   a. Navigate to **Student Information » Management » School Administration » Scheduling Administration » Course Maintenance » Course Sections**.
   b. In the **Working Schedule** dropdown select the master schedule named **Schedule if levy doesn’t pass**.
   c. Click **Reload Screen** and **Search**.
   d. Inactivate the course sections that are being eliminated by editing the course section and removing the checkmark from the **Is Active** box.

3. Now we are ready to run the Batch Scheduler on both master schedules.
4. Follow **Tasks #1-13** for each master schedule.
Appendix E - How to clean out assignments made by the Batch Scheduler but leave the manual assignments.

Occasionally schools would like to start over and delete all assignments created by the Batch Scheduler but keep all the assignments the office staff created manually.

1. In 19/20 at the building level, navigate to Student Information » Management » School Administration » Scheduling Administration » Scheduler » Job Parameter Sets.
2. Click the Edit Pencil icon of the job parameter you have been working with.
   a. In the Grade Levels to Schedule filter move all grade levels over to the left to clear out the filter.
   b. Move a grade level which wouldn’t have any requests over to the right. Examples: GR, UG, IN, and 23.
   c. Click on the Submit tab
   d. Click Save Schedule Parameter.
3. Next click on the 4th icon Execute Job and Create New Schedule Result icon of the job parameter you just edited.
   a. You will be brought to the Submit tab.
   b. In the Master Schedule dropdown choose a master schedule. Most schools will only have one master schedule in the dropdown.
   c. In the New Schedule Result Name field enter a descriptive name. Example: New result set.
   d. In the Copy from Existing Schedule Result Set dropdown choose the schedule result set which contains all the course section assignments created manually and by the Batch Scheduler.
   e. Place a check in the box next to Copy Schedule Results Created Manually.
   f. This will copy all the assignments the office staff hand entered but since we aren’t checking either of the other options the assignments created by the Batch Scheduler or Single Student Scheduler will not be copied.
   g. In the Schedule Job Name field enter the same name you used in step #3c. which is New Result Set.
   h. In the Job Queue dropdown select any queue.
   i. Click Execute Scheduler Job.
4. Wait for the job to finish and then go to a student’s Request Assignments page and choose the new schedule result in the dropdown.
a. You’ll notice all the student’s requests are still there but only the assignments that were entered manually are still scheduled.

5. Now go edit the job parameter again and clear the grade levels filter and pull the appropriate grade levels that you want to schedule over the right again.
   a. Flip to the Submit tab and click Save Schedule Parameters.

6. Follow Tasks #5-13 to finish scheduling.