

# Student Constraints

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The Student Constraints tool allows users to limit a student's interaction in classes with another student, or with multiple students. Constraints are used when loading course requests in the Schedule Wizard, and can be either a strict constraint (student will not be placed) or a not strict constraint (student should not be placed).

Student Constraints can also be entered through the [Planning](#) menu in the Schedule Wizard, and can be rolled forward into future calendars using the [Student Constraints Roll Forward](#) tool.

The screenshot shows the 'Student Constraints' tool interface. At the top, there is a search bar and a 'Save' button. Below the header, a breadcrumb trail reads 'Scheduling > Main Tools > Student Constraints'. A descriptive paragraph explains that the tool creates constraints between students to reduce interaction in courses. The main area features a table titled 'Student Constraints' with columns for 'Student 1', 'Constraint Type', and 'Student 2'. Below this is the 'Student Constraint Builder' section, which includes a text input field for 'Select student(s)', a 'Strict' checkbox, and explanatory text: 'When Strict is marked, the students are never placed in the same section. When Strict is not marked, students are only placed in the same section when there are no other options. When creating constraints between one student and several other students, enter the constraints one at a time.'

*Student Constraints Tool*

Constraints can be added for any reason deemed necessary by the staff (Principal, Counselor,

Teacher) or by a Parent/Guardian's request. Mostly, constraints fall into these two scenarios:

- **Not Strict Constraint.** Abigail and Anna are twins. Their parents have requested that whenever possible, Abigail and Anna are not in the same course sections at the same time. This would be a "not strict" constraint. For example, if both Abigail and Anna need to take Spanish II in third period because Abigail has Soccer the other time it is offered, and Anna needs to stay with the same teacher she had for Spanish I, they may be in the same section.
- **Strict Constraint.** Ryan and David have frequent behavioral issues when they are in the same class as James. It can be distracting for other students, and prohibits them from learning, and causes more tension than needed for all of the other students and the teacher. The logic creates a constraint all combinations of all three students, and prohibits their placement in the same course sections. Strict constraints can be overwritten in the Schedule Wizard, if necessary.

Note that the more frequent use of constraints may limit the successful placement of students in their requested courses.

## Search for Student Constraints

This tool makes a one to many connection. When there are several constraints created, it is best to search for a specific student in the Student 1 column, Student 2 column, or both.

Enter part of a student's last name, student's first name, or a student's number in the **Student 1** or **Student 2** column. When letters or numbers are entered, the list of existing constraints filters to return only those instances that match the entered letters or numbers.

The Student Constraints tool creates constraints between one student and another student to reduce their interaction in courses. These constraints are taken into account when using the Schedule Wizard to place students into requested courses. The list of constraints may be quite long; to filter results for a specific student, type the start of a student's first or last name in either the Student 1 or Student 2 columns, or both.

Student 1	Constraint Type	Student 2
carl		
Student, Carson (G:10#345678 F)	should not be placed with	Student, Everett A (G:12 #456789 M)

*Student Constraints Search*

There is no ability to edit a constraint. If a change does need to be made (the wrong student was selected, the wrong type of constraint was chosen, etc.), click the Delete button. Then, enter a new constraint.

## Add Student Constraints Between Two Students

1. If an existing constraint was not found, click the **New** button to enter a new record.
2. Begin typing a student's name in the dropdown list. When located, click the student's name.
3. Begin typing the second student's name. When located, click the student's name.
4. Mark the **Strict** checkbox, if needed.
5. Click the **Save** button when finished. The constraint displays in the list above.

# Add Student Constraints For More Than Two Students

1. If an existing constraint was not found, click the **New** button to enter a new record.
2. Begin typing a student's name in the dropdown list. When located, click the student's name.
3. Begin typing the second student's name. When located, click the student's name.
4. Begin type the third student's name. When located, click the student's name.
5. Continue this process until all students needing the constraint have been selected.
6. Mark the **Strict** checkbox, if needed.
7. Click the **Save** button when finished. The constraints display in the list above, one entry for each student between each instance of the other students. For example, Anna, Beth, Carrie and Delia cannot be in the same class. The list of constraints would look like this:
  - Anna will not be placed with Beth.
  - Anna will not be placed with Carrie.
  - Anna will not be placed with Delia.
  - Beth will not be placed with Carrie.
  - Beth will not be placed with Delia.
  - Carrie will not be placed with Delia.

The Student Constraints tool creates constraints between one student and another student to reduce their interaction in courses. These constraints are taken into account when using the Schedule Wizard to place students into requested courses. The list of constraints may be quite long, to filter results for a specific student, type the start of a student's first or last name in either the Student 1 or Student 2 columns, or both.

Student Constraints		
Student 1	Constraint Type	Student 2
Student, Anna (G:12#:824529 F)	will not be placed with	Student, Beth (G:11 #:732425 F)
Student, Anna (G:12#:824529 F)	will not be placed with	Student, Carrie (G:10 #:735768 F)
Student, Anna (G:12#:824529 F)	will not be placed with	Student, Delia (G:10 #:735826 M)
Student, Beth (G:11#:732425 F)	will not be placed with	Student, Carrie (G:10 #:735768 F)
Student, Beth (G:11#:732425 F)	will not be placed with	Student, Delia (G:10 #:735826 M)
Student, Carrie (G:10#:735768 F)	will not be placed with	Student, Delia (G:10 #:735826 M)

*Student Constraints with more than Two Students*

Adding a considerable amount of students in one constraint record is not recommended. It is recommended that constraints be added one at a time in order to manage the records more effectively.

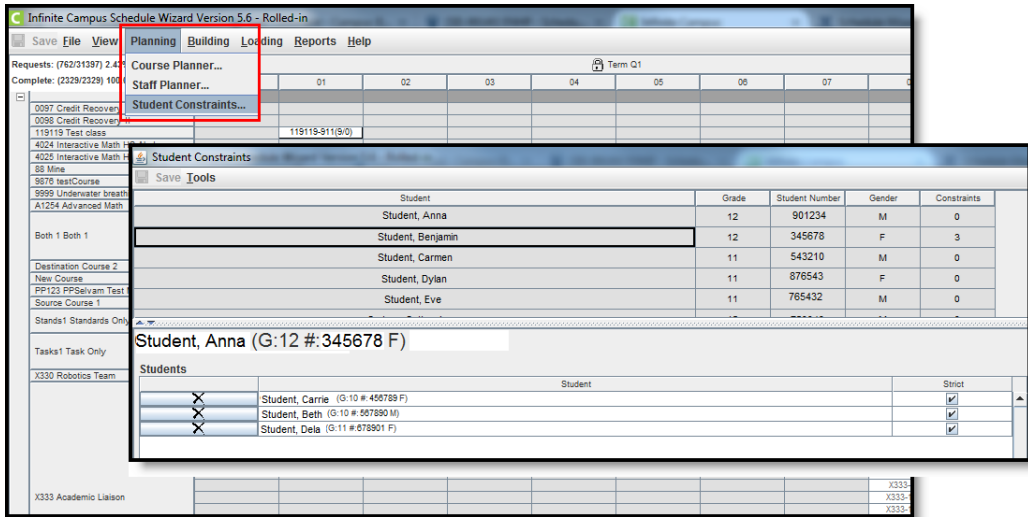
## View Constraints In Other Scheduling Tools

Constraints display in the following areas.

**Scheduling Tool**      **Details**

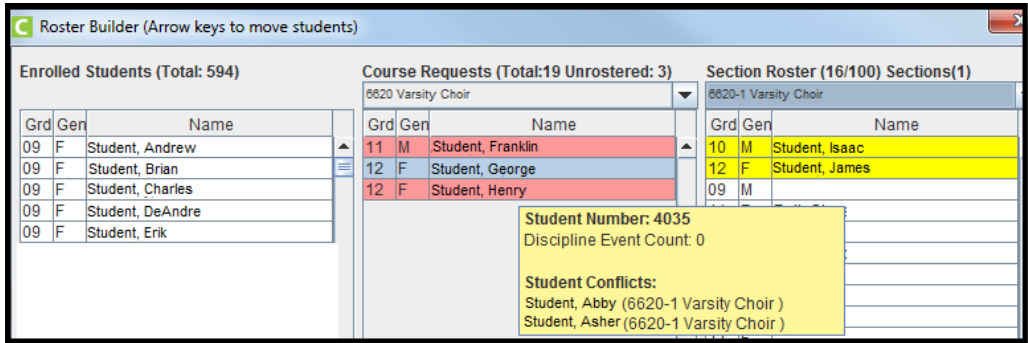
**Schedule Wizard Student Constraints**

Scroll through the list of students enrolled in the calendar (meaning, it is not limited to students who have existing constraints). Constraints may have been rolled into the calendar using the the **Student Constraints Roll Forward** tool in the product, or using the **Import Student Constraints from Last Year** option in the header of this menu. Selected students are highlighted, and the constraints the student has to other students display, and an indication if the constraint is strict or not strict. New constraints can also be added here.



**Schedule Wizard Manual Roster Builder**

When building a roster for a particular course, students who have conflicts with other students who are scheduled in the same section display in red (if the constraint is strict) or yellow (if the constraints is not strict). NOTE: The red or yellow display only occurs when the **View > Conflicts > Student to Student** option is marked in the Schedule Wizard.



**Scheduling Tool**

**Details**

**Schedule Wizard Section Roster**

Constraints display for the section roster in the yellow pop-up box.

The screenshot shows a 'Section Roster - Students 5' window with a table of students. A yellow pop-up box is overlaid on the student 'Jill', displaying the following information:

Lock	Grd	Name
<input type="checkbox"/>	12	Osman
<input type="checkbox"/>	10	Dahir
<input checked="" type="checkbox"/>	12	Vanessa
<input type="checkbox"/>	11	Jill
<input type="checkbox"/>	11	

**Student Number:**  
 Minority  
 Discipline Event Count: 0

**Student Conflicts:**  
 Jill (0016-1 Core Foods II)

## Scheduling Tool

## Details

### Walk-In Scheduler, Search, Manual Mode (@ sign)

When viewing the Walk-In Scheduler, and the list of student requests display on the right, click the @ symbol to highlight where that section meets on the Schedule grid. When a student constraint exists, that section is highlighted in red. The hover text indicates such, but does not indicate which student(s) may be involved.

If the student should still be placed in the section, click the bold text. A warning message then displays indicating a constraint exists. Clicking OK places the student into the section, overriding the student constraint restriction. The course number and section display in red, and the hover text continues to indicate there is a constraint with another student.

Note that overriding the constraint does not remove the record in the Student Constraints tool; the override applies to the placement of a student into a section when a constraint exists.

The screenshot displays the 'Schedule' tab of the Infinite Campus Scheduling Tool. The interface includes a top navigation bar with tabs for Summary, Enrollments, Schedule, Attendance, Flags, Grades, Transcript, Credit Summary, and Assessment. Below the navigation bar are various controls such as 'Table - Group by Course (All Terms)', 'Display Active and Dropped Courses', 'Print OR', and 'Choose a report option'. A search bar and 'Load', 'Unload', 'End', 'Restore' buttons are also present.

The main area features a grid with columns for terms (Q1, Q2, Q3, Q4) and rows for course sections. The grid shows various course sections with their respective course numbers and names. A red box highlights a section in the Q3 column, and a tooltip indicates a 'Strict student constraint(s) in this section'. A red arrow points from this tooltip to the 'Requested Units' list on the right.

The 'Requested Units' list on the right shows a table of course requests:

@	Course #	Course Name	Sn#	Type	Lock
@	1300S1	Geometry	2	R	<input type="checkbox"/>
@	1300S2	Geometry	6	R	<input type="checkbox"/>
@	2200S1	World History	6	R	<input type="checkbox"/>
@	2200S2	World History	8	R	<input type="checkbox"/>
@	3200S1	English 10	1	R	<input type="checkbox"/>
@	3200S2	English 10	3	R	<input type="checkbox"/>
@	4200S1	Biology		R	<input type="checkbox"/>
@	4200S2	Biology	1	R	<input type="checkbox"/>
@	5125S1	Spanish II	5	R	<input type="checkbox"/>
@	5125S2	Spanish II	5	R	<input type="checkbox"/>
@	7200	Physical Education 10	1	R	<input type="checkbox"/>
@	7250	Health 10	2	R	<input type="checkbox"/>

Below the grid, there are controls for 'Effective Date', 'Terms' (checkboxes for 1, 2, 3, 4), and 'Manual Mode' (set to 'Add'). A legend explains the grid colors: Green cell - seats available, Red cell - no seats available, Red cell - student has a student constraint in the section, Yellow cell - currently scheduled section.

Scheduling Tool	Details
<p><b>Student Constraints Roll Forward</b></p>	<p>The Student Constraints Roll Forward tool copies the selected student constraints from the Source Calendar into the Destination Calendar.</p> <div data-bbox="384 376 1414 1014" style="border: 1px solid black; padding: 5px;"> <p><b>Student Constraint Roll Forward</b></p> <p>This tool copies the selected constraints to the selected destination calendar. The list of constraints is limited to those constraints eligible in the destination calendar.</p> <ul style="list-style-type: none"> <li>• Both constrained students must be enrolled in the destination calendar.</li> <li>• The constraint cannot exist in the destination calendar.</li> </ul> <p>Selecting an ad hoc filter may further limit the list of eligible constraints.</p> <hr/> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p><b>*Select Source Calendar</b></p> <input type="text"/> </div> <div style="width: 45%;"> <p><b>*Select Constraints</b></p> <div style="border: 1px solid gray; padding: 2px;"> <p>Student, Andre (G:11 #:0610004 M) --- Student, Astrid S (G:12 #:128460014 F)</p> <p>Student, Andre (G:11 #:0610004 M) --- Student, Becca (G:12 #:4015 F) (strict)</p> <p>Student, Andre (G:11 #:0610004 M) --- Student, Carly (G:11 #:4217 F)</p> <p>Student, Duggar (G:12 #:128760022 F) --- Student, Emily (G:12 #:4083 F) (strict)</p> <p>Student, Astrid S (G:12 #:128460014 F) --- Student, Carly (G:11 #:4217 F) (strict)</p> <p>Student, Flannery (G:12 #:4063 F) --- Student, Ginger (G:12 #:4035 F) (strict)</p> </div> </div> </div> <p>Select Ad Hoc Student Filter</p> <input type="text"/> </div> <p style="text-align: center; font-size: small;">CTRL-click and SHIFT-click for multiple</p> <p style="text-align: center; margin-top: 10px;"><b>RUN</b></p>

Student constraints **DO NOT** display when adding students using the [Roster Setup](#) tool.