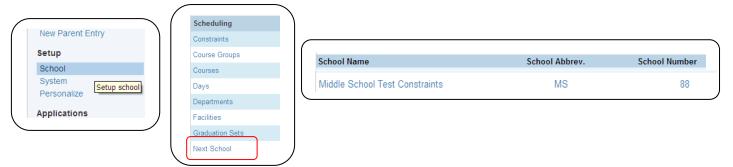


MISD PowerSchool Document

PowerScheduler Creating Student Preference Constraints Using Excel

Included are instructions on creating student Preference Constraints to keep students with the same teacher for semester 2, but not necessarily the same period. This procedure is not 100% guaranteed however in most cases the student will get the same teacher in S2, when the second load is run, that they had in S1 when the first load was run.

- 1. Have a completed Master Schedule, validate the Load and correct all errors. Be ready to Load.
- 2. Note your school ID number. To find your school ID, on the live side select School > Next School and your school name and number should be listed there.



- 3. Have a list of both S1 & S2 courses. The Course List report may be a good choice. Determine which classes you will be working with. For example Math 6 S1 4300 and Math 6 S2 4301. Isolating your courses/sections by hiliting or grouping will be helpful.
- 4. In each of the S2 Courses that you have defined, uncheck Schedule this Course on the Course Preferences page.

Course Information			
uild: Final for Student Prefere	Catalog: MSN	Forever Catalog	J
Assignments Constraints	Preferences	Relationships	Requests
General Information			
Course Number	4301	Cou	rse Name
Credit Hours	0.5	Cre	dit Type
Alternate Course Number		Gra	de Scale
CIP Code		Voc	ational Cla
Scheduling Preferences			
Schedule This Course		•	
Use The Course For Lunch			
Exclude On Report Cards/Trans	scripts		

On the Course Preferences screen uncheck **Schedule This Course** and Submit for the effected S2 courses.

- 5. Validate the Load again to confirm that you have no errors, Load the student schedules. Because you have unchecked certain S2 Courses to not schedule, you will have many classes that don't schedule, however all the students will have S1 classes. (You will be exporting the S1 classes so we can match them to the S2 classes.)
- 6. Make sure your File Import# field in Years & Terms on the PowerScheduler side is filled in correctly for all terms, eg. 2300, 2301, 2302. From Years & Terms select the Edit Terms for the next school year.

Scheduling Setup	Start Page > Powe	rScheduler > Schedu	le Years & Terms		
Scenarios Auto. Scheduler Setup Course Catalogs Years & Terms Periods		Years & Term	S llog: MSN Forever Catal	og	
Days					
Buildings			Ne	w	
Constraints	Year	Abbrev.	1st Day	Last Day	Edit Terms
Departments Facilities	2010-2011	10-11	09/07/2010	06/10/2011	Edit Terms
Houses	2011-2012	11-12	09/07/2011	06/29/2012	Edit Terms
Section Types	2012-2013	12-13	09/05/2012	06/29/2013	Edit Terms
Teams	2013-2014	13-14	09/03/2013	06/29/2014	Edit Terms

Edit Schedule Term	
Option	Value
Name of Term	2013-2014
Abbreviation	13-14 (example: Q1) Note: This abbreviation must start with a lette
First Day of Term	09/03/2013 🔽 (MM/DD/YYYY)
Last Day of Term	06/29/2014 🔯 (MM//D/YYYY)
What portion of the school year does this term represent?	Full year The hard coded number at the
Import File Term #	2300 bottom of each term must be 2300 keyed into the Import File Term # field and Submit. Repeat this for every term.

7. To export the S1 scheduled classes, in System > DDE select the ScheduleCC table. Select all xxxxxx records in this table. Search ScheduleCC for schoolID = xxx, and termID = 2301 (for the 13-14 school year, S1).

Current Ta	able: Schedul	leCC (111)	*		
Current Re	ecords in Se	election: 96480	L		
List View	Table View	Export Records	Match Selection	Table View Setup	
				Colored and A	C 400 merceda ta Alta Ashla
Search S	cheduleCC			Select all 9	6480 records in this table
Search Se	cheduleCC	=	v	Select all 9	
			× ×		6480 records in this table Import File Term # for

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Current T	able: Schedu	leCC (111)	[It has
Current R	ecords in Se	election: 3458	for S1 View to
List View	Table View	Export Records	correct Export

It has found all the CC records for S1 in this school. Table View to confirm you have the correct records. Now you will Export these records.

- 8. Export these fields and save to your desktop:
 - BuildID Course_number SchoolID SectionID Section_number StudentID TeacherID TermID
- 9. Open Excel. In Excel, File/Open, drop down and select "All Files" in Files of Type and navigate to your saved file. The file Text Import Wizard window will open. Select Next, Next again, and on the third step hold down your shift key, move the scroll bar over to the far right and click down in the last field which will hilite all the data; select the Text radio button and Finish.

	s you select each colu	mn and set th	ie Data Format.			
	MDY v port column (skip)	'General' con remaining va		s to numbers, date val	ues to dates, and all	
Data Bieview						
	Text	Text	Text	Text	Text	1
Text rsenumber	Coursenumber2		Text Sectionnumber		Text Yearid	
Text	Coursenumber2	Schoolid		Sectionnumber2	Yearid	
Text	Coursenumber2	Schoolid	Sectionnumber 3 3 3	Sectionnumber2	Yearid 23 23 23	Hilite all and ch
Text	Coursenumber2		Sectionnumber 3 3	Sectionnumber2	Yearid	Hilite all and Text, then Fi

- 10. View your export to make sure it is the correct info. Sort by the Course Number column to group them sequentially. (Here you will isolate the Semester 1 CC records which will be copied to the S2 Preference export worksheet you will create in future steps.)
- 11. In PowerScheduler select a student that will need a Preference. Enter the first record by hand so it can be exported and used as a template. On the Students Preference Constraint screen associate the **Student**, **Course Number**, **Semester**, and **Teacher**.

12. In System > DDE select the ScheduleConstraints table and search for TermID > 2299 (or 1 less than the next year termid) and ConstraintCode = **05**. Check the box to search only in this school which should produce 1 record (the one you just created by hand).

Direct Database Export (DDE)	
Current Table: ScheduleConstraints (110)	The search returns the 1
List View Table View Export Records Match Selection Table View Se	record you just entered to create the template.
Select al 1 Search ScheduleConstraints	1312 records in this table Direct Database Export (DDE)
ConstraintCode = 05 TermID > 2299	Current Table: ScheduleConstraints (110)
Search only in records belonging to Middle School Test Constraints Search all 1312 records in this table Search within the cur	urrent 1312 records only.

13. Select Export. Select the fields below, Submit and save to your desktop.

BuildID CatalogID ConstraintCode CourseNumber SchoolID StudentID TeacherID Term	BulldID CatalogID ConstraintCode CourseNumber SchoolD StudentD TeacherID Field Delimiter Record Delimiter	Tab V CR V Clumn titles on 1st row
TermID YearID	Optional: Sort Field Name	Direction

14. Open Excel. In Excel, File/Open, drop down and select "All Files" in Files of Type and navigate to your saved Constraint file. The file Text Import Wizard window will open. Select Next, Next again, and on the third step hold down your shift key, move the scroll bar over to the far right and click down in the last field which will hilite all the data; select the Text radio button and Finish.

	8		· (° - 🗳 🕯	\$ 4 D)	 origi 	nal 1 con	straint exp	ort.txt - N	∕licrosoft	Excel	
	9	Home	Insert	^p age Layout	Formulas	Data Re	view View	Add-Ins	Help		
(As a text file it		🔧 💑 Cor	nic Sans MS	- 11 - A	· _ = =	= 들 🗞 -	T I	ext 👻	👪 Conditio	onal Formatting 👻	¦ater Insert ≥
preserves the	Pa		7 11					, % ,	📆 Format		ች Delete
leading 0 in the		· · ·	Ι <u>υ</u> -	<u> </u>				.00.00 00 ->.0	🚽 Cell Styl	es *	🗒 Format
Constraint Code	Clip	board 🗟	For	t	6	Alignment	6	Number 🕞		Styles	Cells
05. This code		J18		- (0	f_{x}						
must be imported		A	В	С	D	E	F	G	н	I	J
as 05 and not 5.	1	Buildid	Catalogid		Coursenum		Studentid	Teacherid			'earid
	2	802	4	05	4301	88	14009	6408	52	2302 2	3
	3										

15. Also open your CC table file that is sorted by Course number. It has been recommended that you create a text file for each course that needs to be matched from S1 to S2, however you can create only one text file if you don't find it confusing.

2 1	Ed 1944251	Buildid				F	G	н	I	J	K
	944251		Course Number	Dateenrolled	Dateleft	Expression	Loadlock	Schoolid	Studentid	Teacherid	Termid
2.		802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	14049	486	2301
3 1	1944250	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	18884	486	2301
	1944249	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	18912	486	2301
5 1	1944248	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	18925	486	2301
	1944255	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	16963	486	2301
7 1	1944254	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	15645	486	2301
8 1	1944253	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	14097	486	2301
9 1	1944252	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	14081	486	2301
	1944305	802	4300	9/5/2013	1/18/2014	4(A-B)	FALSE	88	14098	486	2301
11 1	1944304	802	4300	9/5/2013	1/18/2014	4(A-B)	FALSE	88	14083	486	2301
12 1	1944365	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	17272	6408	2301
13 1	1944364	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	17355	6408	2301
14 1	1944367	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	34901	6408	2301
15 1	1944325	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	17194	486	2301
16 1	1944324	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	19013	486	2301
17 1	1944331	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	14099	486	2301
18 1	1944330	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	18874	486	2301
19 1	1944329	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	14057	486	2301
20 1	1944328	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	18881	486	2301
21 1	1944399	802	4300	9/5/2013	1/18/2014	3(A-B)	FALSE	88	13811	6408	2301
22 1	1944488	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	18860	458	2301
23 1	1944489	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	18853	458	2301
24 1	1944490	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	17397	458	2301
25 1	1944491	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	17333	458	2301
26 1	1944492	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	18839	458	2301
27 1	1944493	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	41654	458	2301
28 1	1944494	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	31559	458	2301
29 1	1944495	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	13751	458	2301

It may be easier if you identify the Course Numbers that you will be working with by grouping them.

16. You will copy the StudentID and TeacherId columns from the CC table over to the Constraint export in the StudentID and TeacherId for the first Course.

	Α	В	С	D	E	F	6	н	I	J	K
1	Id		Course Number	Dateenrolled		Expression					
2	1944251	802	4300	9/5/2013	1/18/2014		FALSE	88	14049	486	2301
3	1944250	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	18884	486	2301
4	1944249		4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	18912	486	2301
5	1944248	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	18925	486	2301
6	1944255	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	16963	486	2301
	1944254	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	15645	486	2301
8	1944253	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	14097	486	2301
9	1944252	802	4300	9/5/2013	1/18/2014	2(A-B)	FALSE	88	14081	486	2301
	1944305	802	4300	9/5/2013	1/18/2014	4(A-B)	FALSE	88	14098	486	2301
11	1944304	802	4300	9/5/2013	1/18/2014	4(A-B)	FALSE	88	14083	486	2301
	1944365	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	17272	6408	2301
	1944364	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	17355	6408	2301
14	1944367	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	34901	6408	2301
15	1944325	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	17194	486	2301
	1944324	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	19013	486	2301
17	1944331	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	14099	486	2301
	1944330	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	18874	486	2301
19	1944329	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	14057	486	2301
20	1944328	802	4300	9/5/2013	1/18/2014	6(A-B)	FALSE	88	18881	486	2301
	1944399	802	4300	9/5/2013	1/18/2014	3(A-B)	FALSE	88	13811	6408	2301
22	1944488	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	18860	458	2301
23	1944489	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	18853	458	2301
	1944490	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	17397	458	2301
25	1944491	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	17333	458	2301
	1944492	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	18839	458	2301
27	1944493	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	41654	458	2301
28	1944494	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	31559	458	2301
29	1944495	802	4400	9/5/2013	1/18/2014	1(A-B)	FALSE	88	13751	458	2301

	A	В	С	D	E	F	6	н	I	J
1	Buildid	Catalogid	Constraint	Coursenum	Schoolid	Studentid	Teacherid	Term	Termid	Yearid
2	802	4	05	4301	88	14009	6408	52	2302	23
3										
4										
5										
6										
7										
8										
9										
10										
11										
15										
13										
14 15										
5										
-										
1										
	V					مر م ام ر به	ntID a			-TN

Constraint StudentID and TeacherID fields.

17. After you copy the first course information on the StudentID & TeacherID make sure you copy down the correct Course Number for the S2 course.

Copy down the correct S2 Course B D Н C F F G Т A J Catalogid Constraint Coursenum Schoolid Number for the StudentId & Buildid Studentid Teacherid Term Termid Vearid 802 4301 14009 6408 2302 4 05 88 <u>52</u> 23 TeacherID that you just pasted in from 4301 14049 486 the CC file. 18884 4301 486 If you are creating a separate text file 4301 18912 486 for each course, copy down the other 4301 18925 486 S1 Course number was 4301 16963 486 columns as well. 4300 in the CC file 4301 15645 486 which we change to the 4301 14097 486 If you are creating only one file, wait 52 Course number 4301 14081 486 4301 for the import file until all StudentID, TeacherID, & 4301 14098 486 Course numbers are copied over then 4301 14083 486 copy all the data in the other columns 4301 17272 6408 down at one time. 4301 17355 6408 34901 6408

- 18. The rest of the columns can be copied down as they appear on the first record. Continue this process until all S2 Courses are complete.
- 19. NOTE: On the import text file, the CONSTRAINT CODE IS 05 NOT 5. Make sure all fields are Text and save as .txt file.
- 20. Once your spreadsheet(s) is complete go to Special Functions > Importing & Exporting > Quick Import and select Schedule Constraints table, browse out and find your Constraint .txt file, check the box for Suggest field map and **Import**.

Functions	Special Functions			
Attendance			Out to be sent	
Attendance Today Daily Bulletin	Function		Quick Import	
Enrollment Summary	Assign IDs & Passwords		Option	Yalue
Master Schedule	Attendance Functions		Table:	Schedule Constraints
Special Functions	Current Users		Field delimiter:	Tab 💌
Teacher Schedules	Daily Bulletin Setup	Importing & Exporting	End-of-line marker:	CR 💌
Reports	Enroll New Student		Character Set:	Mac Roman 👻
System Reports	Fee Functions	Importing	File to import:	C:\Documents and Setting Browse
ReportWorks MISD Enhancements	Group Functions	Quick Import	Suggest field map	
TIEnet Import Export	Importing & Exporting	Quick import	School	Middle School Test Constraints

21. Check your mappings to make sure all are there and correct. Check the box to exclude first row and Submit. They should all say Imported.

mpor	t Records from an ASC	ll Text File			
Col#	From your file	>	To PowerSchool		
	Buildid	>	BuildID 👻	(Check these fields	
	Catalogid	>	CatalogID 👻	to confirm that	
	Constraintcode	>	ConstraintCode 💌	they match.	Importing: file to import for student prefer
	Coursenumber	>	CourseNumber	Check the box to	importing, no to import for student proton
	Schoolid	>	SchoolID	exclude first row.	1. : Imported.
	Studentid	>	StudentID 💌		2. : Imported.
	Teacherid	>	TeacherID 💙	Submit. Once you	3. : Imported.
	Term	>	Term 💌	submit you should	4. : Imported.
	Termid	>	TemiD 🗸	see Imported list	
	Yearid	>	YearID	down the page.	 Imported.
h					Imported.
J	Check to exclude first row				7. : Imported.
			es below can be used to assign a constant to field(s) in all of the imported records.		8. : Imported.
		>	~		9. : Imported.
		>	~		10. : Imported.
					11. : Imported.
				Submit	

22. Once they are imported and you see the word Done in the lower left corner you are ready to go back to PowerScheduler, open Student Preference Constraints and see that they did import correctly.

Build: 2013 - 2014 C	atalog: 2013-2014 Course	Catalog			
		New			Notice that we don't have any Section Numbers
Student	Course Number	Section Number	Term	Teacher	because we want the
Adams, Corby	ART1000		S2	Abram, Michael	student to get this teacher for this course in any
Adams, Gerald C	ART1000		S2	Abram, Michael	section for Semester 2.
Allen, Victor C	ART1100		S2	Accatino, Steve	
Ackerman, Stan	ART1000		S2	Abram, Michael	
Ahlberg, Emmy	ART1000		S2	Abram, Michael	
Almanza, Olivia C	ART2000		S2	Berndt, Gordie E	

23. Open the S2 Courses that you previously unchecked to schedule and now check those boxes and Submit.

Scheduling Preferences	
Schedule This Course	

24. Validate the Load again and if no errors, check box to close at max and Execute. Import the Load and check your student's schedules.

This procedure is not 100% guaranteed, but in most cases the students will get the same teacher for S1 and S2 and not necessarily in the same period.

We have not tested this process with trimesters.

Never re-Build after this process or you will need delete all the Student Preference Constraints and begin again.