

Scheduling Module 7

Rules

Feb 2017 v1.4







Version History

Version	Date	Description
1.0	March 10, 2015	Initial Document
1.1	March 24, 2015	Updated Section 2.1 with the requirement of Teachers for the 'Course Blocking Simultaneous' rule
1.2	Feb.15, 2016	Minor updates for clarity
1.3	May 18, 2016	Section 2.2 – Wheel updated with information on keeping sections in the same period
1.4	Feb. 20, 2017	Updated screen captures for 5.6

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1.0 Introduction to Rules

Use scheduling rules to inform the system of any constraints it must follow when building your master schedule or loading students. Rules can be copied from previous years to be used in the current build year. For example, if you have full year courses that you back together on day one and day two, you can define a rule containing both courses, to ensure the build engine schedules sections of Math on Day 1 and PE on Day 2.

Rules are course-based, not section-based; rules are created, applied to courses and the result is how sections are scheduled. If it is required that only certain sections of courses have constraints, those should be entered as manual constraints against individual sections in the Workspace.

There are two types of rules, *Build* and *Load*. The build rules apply to the scheduling of sections (Term, Schedule, Room and Teacher) and the load rules apply to how students are scheduled into sections.

There are 4 filters *All Records*, *Build Rules*, *Load Rules* and *Common Rules*, the latter only applying to schools with multiple Bell Schedules (please contact the service desk if you are in this situation).

You can have an unlimited number of rules within each category.

Note: The more Rules created, the more constraints you are placing on the application's ability to schedule.

For example, in the screen capture below there are multiple *Course Blocking Rules*, a single *Course Sequencing Rule* and *Room Reservation Rules*:





Hugh Boy 1.3 5.6 DB - 6a	d Seco LE	ndary 2017-2018	Dulas Clabal		Build View 👻	A Select School	Coltura, Sbneighbourhood 👻	🕪 Log Off
Pages	scenario	workspace Courses Student Stan Rooms	Rules Global					
Rule Defini	tions							
Rules								_
	Opti	ons Reports Help Tearch on Name						
	_			0 of 29 selected 🥔				All Records
		Name		Туре		Rule	nstances	
		Bell - Course Restrictions		Build and Load				
		Bell - Room Restrictions		Build				
		Course - Alternates		Load				
		Course - Blocking		Build		3		
		Course - Group Exceptions		Load				
		Course - Pattern Exclusion		Build				
		Course - Pattern Sets Restriction		Build				
		Course - Pull-out		Load				
		Course - Resource Assignment Split		Build				
		Course - Sequence Concurrent		Load				
		Course - Sequencing		Load		1 -		
		Course - Ierm Link		Load				
		Course - Ierms Restriction		Build				
		Room - Course Restriction		Build				
		Room - Exceptions		Build				
		Room, Reservations		Build		1		
		Room - Unavailable		Build				
		Room- Teacher Restriction		Build				
		Student - Avoid Teacher		Load				
		Student - Student Relationship		Load				
		Teacher - Avoid Student		Load				
		Teacher - Common Planning		Build				
		Teacher - Concurrent		Build				
		Teacher - Dovetail		Build				
		Teacher - Max-in-a-row Reset		Build				
		Teacher - Part-time		Build				
		Teacher - Reserve Time Block		Build				
		Teacher - Unavailable		Build				

Many of the rules have a **Rule Priority**. The options for this are **Hard** – "include this rule" or **Ignore** – "do not use this rule." The latter allows for turning off a rule without the need to delete in case it might be used at another time. This functionality allows the user to create rules, run the build or load, analyze results, turn off one or more rules and re-run.

To add a Rule: *Rules top tab > Click the name of the Rule > Options > Add.* Rules can also be added from each scheduling attribute (i.e. Courses, Student, Staff or Rooms top tabs).

Note: It is recommended that rules be added from the Rule top tab, until users become very familiar with the functionality.

The following sections cover the rules that will most commonly be used. A complete list of build and load rule definitions is provided in Appendix A. If districts/schools would like to further explore options available, they are encouraged to review the available video, refer to the documentation within MyEducation > Build view > Help > User Guides > Master Schedule Building v5.2 and then bring questions to the scheduled support sessions.





2.0 Build Rules

2.1 Course Blocking – Simultaneous

This rule will create **Classes** groupings, when multiple course sections are being taught at the same time by the same teacher. "Classes" provides the teacher with the ability to take attendance on a single group of students in a period regardless of the course composition. This does not apply for grades or reporting.

Fields:

- **Rule Priority** Hard means the rule will be used when a build is run, Ignore allows you to 'turn it off'.
- **Name** Enter a name for the rule.
- Type Set to Simultaneous
- **# of Section Blocks** This field allows you to designate how many groupings you would like to be part of these Classes.

Example: You have three sections each of Art 10, 11 & 12. You could create one grouping by entering a "1", then there would only be one Section with the three courses at the same time, with the same teacher, in the same room. If you want ALL sections grouped, leave this field blank.

- Use Classes Check this box.
- **Class ID** Enter a name unique to this grouping. You can use the same name as previous.
- Class Max This is the MAXIMUM number of students that can fill this entire grouping.
- Use same teacher Check this box.

In the Courses area click **Add** to add all the courses that will have sections grouped into the Classes combination.

Following is the completed setup:





Hugh Bo 1.3 5.6 DB -	oyd Secon 6a LE	dary 2017-2	018						Build View 👻	🌲 Select School	Coltura, S	bneighl	bourho	od 👻	🕞 Log	Off
Pages	Scenario	Workspace	Courses	Student	Staff	Rooms	Rules	Global								
Rule Def	initions :: (Course - Blo	cking :: Sc	hedule M	IADF SO	8IB, MAD	F S08IBF	۲, MADGE08IB in a Simultaneous bloc	cking			◄	•	Q	►	►I
Rules + Details	Option	s - Reports	Help 🗸													Z
	🖺 Save	X Cancel										De	efault Te	emplate		•
	Gene	eral Patte	rns Tea	ams												
	Rule pric	ority [Hard 💌													
	Name	E	lome Econ													
	Туре	3	Simultaneous	•												
	# of sect	ion blocks														
	Use clas	ses 6														
		0	lass ID Home Ed	con	Class r	nax 30										
	Use sam	e teacher	0													
	Cours	es														
		ID	Number					Description								
		1	MADF S08	IB				DESIGN: HOME ECONOMICS 8								
		2	MADFS08	IBFY				DESIGN: HOME ECONOMICS 8								
		3	MADGE08	IB				DESIGN: TECH ED 8								
													6	Add	🗊 Del	ete
	😫 Save	X Cancel														

Note: Teachers MUST be assigned to all course sections, which are included in this rule. The assignment of teachers to individual sections is covered in Scheduling Module 8 - Workspace and Build Validation.





2.2 Course Blocking – Wheel

This rule is used to keep cohort groups of students together, as they take multiple courses.

The Wheel rule is not designed to keep sections of courses together in the same period, across all Terms. If this is required see section 2.2.2.

Note: This rule is the BCeSIS equivalent of creating Host and Subordinate courses. One significant difference is that students need to have a request for all courses contained in the Wheel.

Wheels represent a series of courses that all students take, but not necessarily in the same order.

By selecting the option of **Use platoons** – the application will automatically group students together, when students are loaded. The screen capture below shows a typical configuration, for a school that offers four courses in a rotation:

Definiti	ions :: Course -	Blocking :: Schedule MAD	F S08IB, MADF S08IBFY, MADGE08I	B in a Wheel blocking		▲ C	2 🕨
	Options - Rep	orts• Help •					
	🖺 Save 🗶 Canc	el				Default Templ	ate
	General	Patterns Teams					
	Rule priority	Hard •					
	Name	Home Econ					
	Туре	Wheel •					
	# of section blocks						
	Use platoons						
	Use same teacher	0					
	Courses						
	ID	Number	Description		SeqNo		
	1	MADFS08IB	DESIGN: HOME ECONOMICS 8		1		
	2	MADFS08IBFY	DESIGN: HOME ECONOMICS 8		1		
	3	MADGE08IB	DESIGN: TECH ED 8		1		

2.2.1 Sections in different periods

- 1. Set the **Type** to Wheel
- Enter the number of sections this will apply to, blank will be all sections. For example if you have a 4 way rotation involving 4 courses and 4 sections of each leave blank for enter 4
- 3. Check the **Use** platoons box if you would like the system to create cohort groups of students together.
- 4. Select the courses that will be part of this wheel.
- Enter the SeqNo. This value controls which term you want sections of each course to start in. For example in the above screen capture with all SeqNo set to 1, each course will have a section start in the first term.
- 6. Save.





2.2.2 Sections in the same period

If you want the Build engine to find the best period and keep all sections of all courses in the same period, use the following 3 step setup:

1. Course attributes (Courses top tab) set each course, that will be part of the Wheel with **Balance by Term = checked**

Hugh Bo 1.3 5.6 DB -	oyd S	Secondary 2017-	2018								Build View		ol Coltura, Sb	neighbourh	ood 🔻	🕞 Log	g Off
Pages	Sce	enario Workspace	Courses	Student S	taff R	looms	Rules	Global									
Courses	:: M	ADF S08IB - DESI	gn: Home e	CONOMICS	8 🛝								I	• •	Q	►	
Details		Options Report	s- Help-														
Requests	_	Save X Cancel												Default "	Template		٣
Pulos	_	Master type *	Class							Academic level							
Rules		Number *	MADF S08IB														5
Snapshots	÷	Department	Applied Skills														
		Description	DESIGN: HOME	ECONOMICS 8						Course package							
		Short description															
		Credit	0.0														
		Weight	0.0														
		Include in scheduling								Covered terms per	1						
		Sections scheduled	3							year							
		Section enrollment max	30							Base terms per year *	3						
										Periods per cycle	2.0						
										Schedule Pattern Set > Name	Everyday		d j	ĸ			
		Course Bind Next > Number		Q			Load price	prity	50			Section balance type					
		Balance by term	•	_			Are subs	allowed?				Term balance type Repeat type	• None	•			

- 2. Create a **Course Blocking Simultaneous** rule as outlined below
 - a. Type = Simultaneous;
 - b. Enter the # of section blocks (leave blank if this will apply to all sections);
 - c. Do not check Use classed;
 - d. Do not check Use same teacher
 - e. Select all courses that will be in the wheel;
 - f. Save.





cenario Workspa	ce Courses	Student Staff	Rooms Ru	iles Global			
ions :: Course -	Blocking :: Sch	nedule MADFS	08IB, MADF SO	8IBFY, MAD	GE08IB in a Simultar	eous blocking	I 4 4 0
Options- Rep	orts 🗸 🛛 Help 👻						
🖺 Save 🗶 Can	el						Default Templa
Ground	Datterns Tear						
General	accents rear	15					
Rule priority	Hard •						
Name	Home Econ						
Туре	Simultaneous	•					
# of section blocks							
Use classes							
Use same teacher							
Courses							
ID	Number				Description		
E 1	MADES081	В			DESIGN: HOME ECONOM	AICS 8	
2	MADES081	BFY			DESIGN: HOME ECONOM	AICS 8	
3	MADGE08	в			DESIGN: TECH ED 8		

3. Create a **Course Blocking Term** rule as outlined below:

Choose **ONE** course from the wheel and enter that course, equal to the number of terms in your wheel. For example:

- If you have a wheel that covers 4 terms enter one course 4 times (see below);
- If you have a wheel that covers 5 terms enter one course 5 times;
- If you have a wheel that covers 6terms enter one course 6 times;

Hugh B	oyd Secondary 201	7-2018						Build View 👻	🜲 Select School	Coltura, Sbneig	hbourho	iod 👻	🗈 Log C	ff
Pages	Scenario Workspa	ice Courses	Student S	taff Rooms	Rules	Global								
Rule De	finitions :: Course -	Blocking :: Scl	hedule MAD	FS08IB, MAD	F \$081B,	MADF S08IB in a Terms bl	ocking			◀	•	Q		►I
Rules ► Details	Options- Rep	orts 🕶 🛛 Help 👻												A
	🖺 Save 🗶 Cano	cel									Default Te	emplate		,
	General	Patterns Tear	ms											
	Rule priority	Hard •												
	Name	Home Econ												
	Туре	Terms	•											
	# of section blocks													
	Use platoons													
	Use same teacher													
	Courses													
	ID	Number		Descriptio	'n			Seq	No					
	■ 1	MADFS08IB		DESIGN: H	IOME ECON	IOMICS 8		1						
	2	MADFS08IB		DESIGN: H	IOME ECON	IOMICS 8		1						
	3	MADFS08IB		DESIGN: H	IOME ECON	IOMICS 8		1						
	Save X Cano	el									E	Add	🛱 Deleti	

4. Using this setup, you will have to manually put a Platoon code on each section of courses in the wheel.



The result is the Build engine will pick the best period to schedule all sections of courses in the wheel *in the same period*:

Hugh Bo	lugh Boyd Secondary 2017-2018								Build View -	Select (School	Coltu	ira Shneid	bourbood - G	Log Off			
1.3 5.6 DB -	6a LE												- Juliut	5011001	Conto	na, soncigi		LUG ON
Pages	Scenari	Worl	kspace	Courses	Student	Staff	Rooms	Rules	Global	_			_	-	-	_	_	_
Sections																		
Master	Q	tions	Reports	Help	Searc	h on Code	0,	Y	- R-	2 II.	4							স
Sections Details Roster										0	of 9 selected 🥖						Custor	n Selection
Teachers Rules		Cours	e	SecNo	ScheduleTen	m > Code ▲	Unrotate	ed Schedule	Team	Schedule	Primary Staff > Name	PrimaryRoom > Num	Inclusion?	Total	Max	SecType	ExcludeFromBuild	Platoon
Classes		MADE	S08IB-03	03	T1					1(1-2)	Ansondhaliwal, Mrsnexmin	207	N	0	30		Ν	
Class Fize		MADE	S08IBFY-02	02	T1					1(1-2)	Ballombe, Callieerica	210	N	0	30		Ν	
Summary		MADG	E08IB-03	03	T1					1(1-2)	Balouchastani, Briandebbie	211	N	0	30		N	
Matrix View		MADF	S08IB-02	02	Т2					1(1-2)	Ansondhaliwal, Mrsnexmin	207	N	0	30		Ν	
	0	MADE	S08IBFY-03	03	Т2					1(1-2)	Ballombe, Callieerica	210	N	0	30		N	
Assignmen	cs 🗌 🗆	MADG	E08IB-01	01	Т2					1(1-2)	Balouchastani, Briandebbie	211	N	0	30		N	
Schedules	0	MADE	S08IB-01	01	тз					1(1-2)	Ansondhaliwal, Mrsnexmin	207	N	0	30		N	
Feedback		MADE	S08IBFY-01	01	тз					1(1-2)	Ballombe, Callieerica	210	N	0	30		Ν	
Analysis		MADG	E08IB-02	02	тз					1(1-2)	Balouchastani, Briandebbie	211	N	0	30		Ν	
, analysis	4																	÷.





2.3 Course Blocking – Days

This rule can be used if schools would like to ensure one course section is offered on one day and another is offered on the second day.

In the example below, Math 11 and PE 11 are scheduled on alternating days for the full year.

Math	$\uparrow \frown \uparrow \frown$	1 ↑
PE		

Hugh B 1.3 5.6 DB	oyd Secondary 201 - 6a LE	7-2018					Build View	✓ ♣ Select S	School	Coltura, Sbneigh	bourhoo	od 👻	🗈 Log Off
Pages	Scenario Workspa	ace Courses Stud	ent Staff Rooms	Rules	Global								
Rule De	finitions :: Course -	Blocking :: Schedu	le MPE11, MPREC1 ⁴	1 in a Da	ays blocking					◀	•	Q	
Rules ► Details	Options - Rep	rorts 🕶 🛛 Help 👻											Z
	🖺 Save 🗶 Can	cel								D	efault Tei	mplate	•
	General	Patterns Teams											
	Rule priority	Hard •											
	Name	Math 11 & PE 11											
	Туре	Days •											
	# of section blocks]										
	Use platoons	•											
	Use same teacher	•											
	Courses												
	ID	Number	Description	n			SeqN	D					
	1	MPE11	PHYSICAL I	EDUCATION	N 11		1						
	2	MPREC11	PRE-CALCI	JLUS 11			1						
											e	Add	🖻 Delete
	🛱 Save 🗶 Can	cel											





2.4 Course Blocking – Terms

Course blocking - terms is used when a course meets one term, and a course contingent on the first meets the next term during the same period. In the example below this school would like to ensure sections of MEN--09 & MSS--09 happen at the same time across terms. Options to use platoons to keep the student groups together are available as is the ability to use the same teacher. Where the order does not matter, set the sequence number (SeqNo) to 1, otherwise set the order they should be presented.

S1	Day 1	Day 2
1		
2	MEN(09 (01)
3		
4		
5		

S2	Day 1	Day 2
1		
2	MSS—	09 (01)
3		
4		
5		

Hugh Be	oyd Secon - 6a LE	dary 2017-2	018						Build View 👻	A Select School	Coltura, Sbne	ighbourt	nood 👻	🕪 Log Off
Pages	Scenario	Workspace	Courses	Student	Staff	Rooms	Rules	Global						
Rule Def	finitions ::	Course - Blo	cking :: Sc	hedule M	EN091	B, MSS(09IB in a	a Terms blocking			I	•	Q	
Rules ► Details	Option	s - Reports	Help 🗸											Z
	🖺 Save	X Cancel										Default	Template	•
	Gen	eral Patte	rns Tea	ims										
	Rule pri	prity	Hard 🔻											
	Name	E	NG & SS Grad	le 9										
	Туре	0	Terms	•										
	# of sec	tion blocks												
	Use plat	oons												
	Use san	ne teacher												
	Cours	es												
		ID N	lumber		C	escription			Ser	ąNo				
	•	1 N	IEN09IB		L	ANGUAGE A	ND LITER4	TURE 9	1					
		2 N	ISS09IB		I	NDIVIDUALS	AND SOCI	ETIES 9	1					
	🖺 Save	X Cancel											🛨 Add	🗐 Delete



2.5 Course Blocking – Consecutive

One course meets after another, back to back. Leaving the # of section blocks blank indicates to the builder to match all sections. Use platoons will keep the group of students together in each section and use same teacher will keep the teacher for each of the matching course sections. If the sequence number does not matter, use 1 for both/all sections. Example: English 9 needs to be before or after Social Studies 9

Hugh B 1.3 5.6 DB	oyd Secondary 201 - 6a LE	7-2018									Build	l View 👻	🌲 Selec	t School	Colt	ura, Sbr	neighb	oourhoo	d 🔻	🕀 Log Off
Pages	Scenario Workspa	ice Courses	Student	Staff R	looms	Rules	Global													
Rule De	finitions :: Course -	Blocking :: Sc	hedule ME	EN091B,	MSS(09IB in	a Conse	cutive b	blocking	1						ŀ	◄	•	Q	• •
Rules ► Details	Options- Rep	orts 🗸 🛛 Help 🗸																		Q
	🖺 Save 🗙 Can	cel															De	fault Ter	nplate	
	General	Patterns Tea	ams																	
	Rule priority	Hard •																		
	Name	ENG & SS Grad	le 9																	
	Туре	Consecutive	•																	
	# of section blocks																			
	Use platoons																			
	Use same teacher																			
	Courses																			
	ID	Number		Des	cription							Se	oNp							
	1	MEN09IB		LAN	GUAGE A	ND LITER/	ATURE 9					1								
	2	MSS09IB		INDI	VIDUALS	AND SOCI	IETIES 9					2								
																		÷	Add	🗊 Delete
																		_		
	Save X Can	cer																		

2.6 Room Reservations

This rule allows rooms to be used for specific courses. Options include to restrict the use of the identified rooms only for the listed courses, and/or to open the rooms once the reservations have been satisfied. In the example below, the science labs are used only for the Science courses.

Hugh Bo 1.3 5.6 DB -	oyd Secondary 2017 6a <i>LE</i>	-2018									Build View 🛨	🌲 Select School	Coltura,	Sbneigh	bourha	ood 👻	🕞 Log Off
Pages	Scenario Workspa	e Courses	Student	Staff	Rooms	Rules 0	Global										
Rule Def	initions :: Room - Ro	servations :	: Rooms G	ym1, Gy	/m2 are r	eserved	for MPE-	-10IB, MPE	11R	S, MPE12,	MPE12RS					Q	
Rules ► Details	Options- Repo	rts 🗸 🛛 Help 👻															Þ
	Save X Cance	1															
	Rule priority	Hard •															
	Name	PE															
	Courses must be scheduled in these rooms																
	Rooms can only be used by these courses	×															
	Open room when satisfied	•															
	Rooms								Cour	ses							
	Number	D	epartment		N	Max capacity				Number	Description				D	epartmer	nt
	Gym1				7	5				MPE10IB	PHYSICAL AND	HEALTH EDUCATION	10		P	hysical Ed	ucation
	Gym2				7	'5				MPE11RS	PHYSICAL EDU	CATION 11 RACQUET S	SPORTS		P	hysical Ed	ucation
							+ Add	🗙 Remove		MPE12	PHYSICAL EDU	CATION 12			PI	hysical Ed	ucation
										MPE12RS	PHYSICAL EDU	CATION 12 RACQUET	SPORTS		P	hysical Ed	ucation
															e	Add	X Remove
	Save Cance														_		



3.0 Load Rules

Note: The more rules that are added to a scenario, the more difficult it will be for the Load engine to satisfy all the conditions entered. Users may also experience difficulty in the analysis of the master schedule, until they are familiar with the overall functionality contained within the **Build view.**

3.1 Course – Sequencing

Course sequencing loads students in a particular order such that course A will be assigned before course B in a future term. This rule can be used to manage pre-requisites by loading students into courses in an order. In the example below, Foods & Nutrition 11 must be loaded from student requests in an earlier term than Professional Cook 11.

S1	1	2	3	4	5	6			
А									
В		Foods & Nutrition 11							
С									
D									
Е									
F									
G									

S2	1	2	3	4	5	6
А						
В						
С						
D						
Е		Prof	ession	al Coo	k 11	
F						
G						



Appendix A: Build and Load Rule Definitions

Scheduling Rule	Description	Example
Bell – Course Restrictions	If your school operates with more than one bell schedule, identify the courses you want to assign to a specific bell schedule.	If fifth grade students take courses tied to the fifth grade bell schedule, assign all fifth grade courses to that bell schedule.
Bell – Room Restrictions	If your school operates with more than one bell schedule, identify the rooms you want to assign to a specific bell schedule.	If two grade levels have different bell schedules that operate with a different number of days per cycle, you most likely need to determine which rooms are assigned to which bell schedule.
Course Alternates	Identify courses that are global alternates for another course. This rule applies to all students that request the primary course.	If any student is requesting Course A (Spanish) and doesn't get into it, try them into Course B (French), or even Course C (German).
		Note: The system first uses alternate requests by students, then alternates you define for a course, and lastly the alternates you define in this rule.
Course Blocking	Block certain courses in one of the following ways:	Examples:
Note: This is the most commonly used scheduling rule.	Consecutive: One course meets after another	English 9 needs to be before or after Social Studies 9.
	Days: 'Dovetail'- one course meets one day, the other course meets the other day	You would like Gym to meet Day A and Health to meet Day B.
	Free form: If a course is not one of the other block types	You want English 9 on Period 1 for two days and MCAS English on Period 4 for two days.
	Simultaneous: The two courses meet at the same time	Simultaneous: The two courses meet at the same time A small group of French 4 students wants to be able to continue to French 5. There is no room or staff capacity. So you decide to offer French 5 as an independent project, at the same time as French 4 and with the same teacher.





Scheduling Rule	Description	Example					
	Not Simultaneous: The courses cannot meet at the same time	Because 97 percent of the Band students also take AP English 12, these two classes should never happen at the same time.					
	Terms: One course meets one term, the other course meets the next term during the same period	If you have one class in one term, keep it in the same period in the opposite term.					
	Wheel: Group of courses all students take but start at different courses	Middle school enrichment curriculum might dictate that students take Music, Art, Library Science, and Technology. Each group of students will start at a different course and then move on to the others in a circular pattern.					
Course Group Exceptions	Specify the list of courses that can be excluded from a group (house, platoon, or team). To do so, identify the groups, minimum required sections for a student to get in order to be considered in a group, and the courses that can be exceptions for students in those groups.	For example, you might determine that students on Team Blue must get at least three of four sections on their schedule on Team Blue. The fourth section can be a section tied to another team (non- mixed), or not to any team (mixed).					
	You can also determine if you want to allow exceptions in non-mixed sections (sections that are identified with a specific group).						
Course Pattern Exclusion	Match specific courses to specific schedule patterns that the system cannot use to schedule those courses.	You might not want Physical Education courses to be scheduled in the periods after lunch. Or, if you create component-based patterns, you might create a rule to identify those patterns that the system should not use for courses that use component- based schedule patterns.					
		For example, assume your school has a Math course that students must take four times during a schedule cycle. The only patterns you want the system to avoid for this course are patterns that would repeat the course twice in one day.					





Scheduling Rule	Description	Example		
Course Pattern Sets Restriction	Specify the number of sections for a course that are allowed for a particular subset of patterns.	For example, an English course has four sections, of which three meet every day for a semester, and one meets every other day for the entire year.		
		sections with different pattern shapes.		
Course Pull-out	Indicates it is acceptable for a student to have a conflict.	A student can be pulled out of English class for speech therapy twice a week.		
Course Resource Assignment Split	Specify that the system can split sections built for the courses you select by teacher and/or room. First, you specify the minimum and maximum number of teachers and rooms the system can use to split the sections. Then, add possible schedule patterns and determine how you want to split resources (teachers and rooms) within each possible pattern. Lastly, identify which rooms the system can possibly schedule the split sections in. Note: If you do not specify specific rooms on the Rooms sub-tab, MyEducation BC uses the standard room assignment hierarchy.	For example, a Creative Writing cours can be taught by any two teachers in the English department in one of three classrooms in a hallway, in a 1(A-F), 2(A-F), 3(A-F), or 4 (A-F) schedule pattern.		
Course Sequence Concurrent	Specify the list of courses students must take during the same term.	Students that enroll in Calculus in a term must enroll in Chemistry the same term.		
Course Sequencing	Students must take a course before taking another course in the same year.	Students must take Latin I before they take Latin II if they request both in the same year.		
	Note: You need to set this rule even if you have prerequisites defined.			





Scheduling Rule	Description	Example					
Course Term Link	Specify a list of courses a student must be scheduled in across the terms you specify. You can determine that the courses must be scheduled during the same period across terms, or that the system can load the students in the courses in different periods each term.	Students must take Health, which meets for one quarter, and Physical Education, which also meets one quarter. Without this rule, the system might schedule students in one course Quarter 1, and the other course Quarter 3, leaving two quarter holes in their schedules. Define a Course Term Link rule to determine that these two courses should meet during one semester to leave an entire semester free for another course.					
Note : If a staff member's 'Use preferred room only' checkbox is selected in the staff scheduling preferences, the system follows that before applying any of the room rules you define below.							
Room – Course Restriction	Identify the specific room(s) the system can schedule a course in.	Keyboarding can only meet in three of the five computer labs. You identify the three labs.					
		Note: Other courses can meet in these rooms as well.					
Room - Exceptions	Identify a list of courses that cannot be scheduled in a list of rooms.	A school might identify that all Math courses cannot meet in the rooms in the Science wing because of the types of tables available in those rooms.					
Room – Teacher Restriction	Only use a specific room for a teacher.	Ms. Healy only teaches classes in room 354.					
		This rule is more flexible than selecting the Use preferred room only checkbox in staff scheduling preferences because you can list several rooms and the specific courses the system can schedule in each specific room for that teacher.					
Room Proximity	Determine the locations that are close to a room to minimize teacher travel time.	For schools with multiple buildings or wings, teachers might have to stay within one building or on one side of the building to make it from class to class on time.					





Scheduling Rule	Description	Example			
Room Reservations Note: This is the most common room rule.	The system can schedule only the courses you identify in this room. You can also identify rooms that can be used only by the list of courses you identify. Select the Open room when satisfied checkbox to allow the system to schedule other courses in these rooms after the courses listed in the rule have been satisfied first, and there is extra capacity left Select the Open room when satisfied checkbox to allow the system to schedule other courses in these rooms after the courses listed in the rule have been satisfied checkbox to allow the system to schedule other courses in these rooms after the courses listed in the rule have been satisfied and if there is extra capacity.	The Science Lab room can only hold Biology, Chemistry, Anatomy, and Physiology course sections; the system cannot schedule any other courses in this room. This rule is ideal for Physical Education and Music courses.			
Room Unavailable	A room is unavailable during certain periods on certain days. Note : This rule is good to use if your school is desperate for space.	The English Department chairperson's classroom is unavailable on Day A, Period 2 due to department meetings. Or, the Cafeteria is available to hold classes all periods except the three lunch blocks.			
Student-Student Relationship	There are two different relation types you can define for the rule: Avoid: One student can- not be scheduled in the same section with another student. Together: One student must be scheduled in the same section with another student(s). By default, the rule applies to all courses the students share. You can add a list of courses that the rule should not apply for as exceptions.	Two students with a history of fighting cannot be scheduled in the same course section. Or, students who are twins must be scheduled in the same course sections.			
Student Avoid Teacher	One student cannot be scheduled in sections taught by a list of specific teachers.	A student cannot enroll in a course taught by Mrs. Mendez because of a past incident.			





Scheduling Rule	Description	Example
Teacher Avoid Student	Identify a teacher and a list of students that cannot be scheduled in any of the teacher's sections.	Several students had conflicts with Mrs. Smith and cannot be scheduled in her classes.
		Note: If she is the only teacher available for required courses, this rule will not be adhered to.
Teacher Common Planning	A group of teachers need the same free, unscheduled time. Assign the rule to a course to create a section on teachers' schedules.	All staff members in the English Department need a free period for a department meeting. The system uses the times you enter as options; it does not adhere to all the options you enter.
		If you need a specific day and period, use a Teacher Unavailable rule for each affected teacher.
Teacher Concurrent	A teacher can teach more than one course at a time.	The resource room teacher might teach Math resource and Language resource at the same time, in the same room
Teacher Dovetail	Select a teacher and specify a list of partial cycle courses that should be scheduled to minimize the number of	A teacher teaches two sections of a semester course.
	periods in the teacher's schedule.	Rather than scheduling the teacher in two different periods across semesters for the course, schedule the teacher into the same period across semesters.
Teacher Max-in-a- row Reset	Reset the maximum number of periods teachers can teach after a specific period.	Some schools identify a 10- minute period between periods 3 and 4 as a Homeroom period. Then, period 4 acts as a new beginning to the max-in-a-row parameter.
Teacher Part-time	A teacher needs a specific number of free periods during a span of periods.	Lunch spans three periods a day (5A, 5B, 5C). Each teacher needs one of those periods free to eat, but it does not matter which period it is.
Teacher Unavailable	The system cannot schedule a teacher during the time block you specify.	A teacher might not be available Period 1 due to daycare drop-off, or a baseball coach needs to be free Period 9 due to his game schedule.