



Texas Skyward User Group Conference

Using the Auto Scheduler

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Future Scheduling-Using the Auto Scheduler



This session will discuss how to use the Auto Scheduler with Imperative, Pseudo, and Actual runs to schedule your students more effectively.

- Overview of the Auto Scheduler range screen
- Imperative vs. Pseudo vs. Actual
- Interpret the Scheduling Run Analysis screen
- Interpret the Student Conflict Detail Report

Auto Scheduler Range Screen – Imperative

WS\OF\FS\SS\AS\GS

Template Settings

* Template Description:

Share with other users in entity 001

Schedule Generation Options

Year To Generate Schedules For: Terms: Terms: 01 - 06

Student Ranges

* Grade/Grad Yr: 2021 2024

Start **End**

Low **High**

* Student Type:

* NY Sched Team:

Scheduling Run To Perform

Actual Scheduling Run * Number of Runs:

Imperative Conflict Run

Pseudo Scheduling to Simulate Process

Auto Scheduler Type

.Net Scheduler

Scheduling Options

Process Special Ed Courses

Close Sections When Filled

Build Free Period Matrix

* Semester Imbalance Max:

Use Maximum Special Ed Enrollment %

Force Co-Requisites to Schedule All or Nothing

Only for flagged Co-Requisites

Schedule Required Courses first, then Elective Courses

Balance By Student Attributes

Student Attributes

Select	Order	Field
<input type="checkbox"/>	0	Gender
<input type="checkbox"/>	0	Race
<input type="checkbox"/>	0	Special Education

3 records displayed

Creation Options





Create Student Conflict Detail

Include Imbalances As Conflicts

Asterisk (*) denotes a required field

Auto Scheduler Range Screen – Pseudo WS\OF\FS\SS\AS\GS

Generate Student Schedules Maintenance

This Process will Allow the Mass Scheduling of Students into their Requested Courses based on the Ranges Entered by the User.

Template Settings

* Template Description:

Share with other users in entity 001

Schedule Generation Options

Year To Generate Schedules For: Terms: Terms: 01 - 06

Student Ranges

	Start	End
* Grade/Grad Yr:	<input type="text" value="12"/> 2021	<input type="text" value="09"/> 2024
	Low	High
* Student Type:	<input type="text"/>	<input type="text" value="ZZZ"/>
* NY Sched Team:	<input type="text"/>	<input type="text" value="ZZZ"/>

Scheduling Run To Perform

Actual Scheduling Run * Number of Runs:

Imperative Conflict Run

Pseudo Scheduling to Simulate Process

Auto Scheduler Type

.Net Scheduler

Scheduling Options

Process Special Ed Courses

Close Sections When Filled

Build Free Period Matrix

* Semester Imbalance Max:

Use Maximum Special Ed Enrollment %

Force Co-Requisites to Schedule All or Nothing

Only for flagged Co-Requisites

Schedule Required Courses first, then Elective Courses

Balance By Student Attributes

Balance By Student Attributes

Student Attributes

Select ▲	Order	Field
<input checked="" type="checkbox"/>	0	Gender
<input type="checkbox"/>	0	Race
<input type="checkbox"/>	0	Special Education

3 records displayed

Creation Options

Create Student Conflict Detail

Include Imbalances As Conflicts

Asterisk (*) denotes a required field

Auto Scheduler Range Screen – Actual WS\OF\FS\SS\AS\GS

Generate Student Schedules Maintenance

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Schedule Generation Options

Year To Generate Schedules For: Terms: Terms:

Student Ranges

	Start	End
* Grade/Grad Yr:	<input type="text" value="12"/> <input type="text" value="2021"/>	<input type="text" value="09"/> <input type="text" value="2024"/>
	Low	High
* Student Type:	<input type="text"/>	<input type="text" value="ZZZ"/>
* NY Sched Team:	<input type="text"/>	<input type="text" value="ZZZ"/>

Scheduling Run To Perform

Actual Scheduling Run * Number of Runs:
 Imperative Conflict Run
 Pseudo Scheduling to Simulate Process

Auto Scheduler Type

.Net Scheduler

Scheduling Options

Process Special Ed Courses
 Close Sections When Filled
 Build Free Period Matrix * Semester Imbalance Max:
 Use Maximum Special Ed Enrollment %
 Force Co-Requisites to Schedule All or Nothing
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 Schedule Required Courses first, then Elective Courses

Creation Options

Create Student Conflict Detail
 Include Imbalances As Conflicts

Balance By Student Attributes

Student Attributes

Select	Order	Field
<input type="checkbox"/>	0	Gender
<input type="checkbox"/>	0	Race
<input type="checkbox"/>	0	Special Education

3 records displayed

Asterisk (*) denotes a required field

Scheduling Run Analysis Screen

WS\OF\FS\SS\AS\RA

Student Scheduling Run Analysis

Available Auto Scheduling Run Records for the 2020-21 School Year

Term	Run Type	Start Date	Start Time	End Date	End Time	Str Grd	End Grd	Student Conflict Percent	User Name	Sch Type
▼ YR (01-06)	Actual	09/19/2019	9:35 AM	09/19/2019	9:35 AM	12	09	56.6% (180/318)	POLITESCR, CINTHIA	.Net

Expand All Collapse All Modify Details (displaying 3 of 3) View Printable Details

▼ Run Details Student Conflict Detail Report Course Conflict Report Conflict Totals Report

Highest Period: 08 Build Free Matrix: Yes Start Graduation Year: 2021 End Graduation Year: 2024
 Close Sections When Filled: Yes Create Conflict Detail: Yes Include Imbalances as Conflicts: No Encountered Error: No
 Process Special Ed Courses: No

▼ Totals

Grade	Total Students	Conflicts	Conflict Percent	Imbalances	Imbalance Percent
09	0	0	0.0%	0	0.0%
10	109	25	22.9%	0	0.0%
11	127	101	79.5%	0	0.0%
12	82	54	65.9%	0	0.0%
Totals	318	180	56.6%	0	0.0%

▼ Free Period Matrix

Grade: 12

DAY	TERM: 1	GRADE: 12	STUDENTS: 82							
	-0-	-1-	-2-	-3-	-4-	-5-	-6-	-7-	-8-	-9-
MON	58	48	47	57	82	32	56	56		
TUE	3	12	2	56	57	11	31	56		
WED	58	48	47	57	82	32	56	56		
THU	58	48	47	57	82	32	56	56		

Student Conflict Detail Report –
Shows the conflicts for each
student WS\OF\FS\SS\AS\RA

Student Scheduling Run Analysis

Available Auto Scheduling Run Records for the 2020-21 School Year

Term	Run Type	Start Date	Start Time	End Date	End Time	Str Grd	End Grd	Student Conflict Percent	User Name	Sch Type
YR (01-06)	Actual	09/19/2019	9:35 AM	09/19/2019	9:35 AM	12	09	56.6% (180/318)	POLITESCR, CINTHIA	Ne

Expand All Collapse All Modify Details (displaying 3 of 3) View Printable Details

Run Details Student Conflict Detail Report Course Conflict Report Conflict Totals Report

Highest Period: 08
Close Sections When Scheduled: Yes
Process Special Ed Courses: No

Totals

Grade	Total Students	Conflicts
09	0	0
10	109	25
11	127	101
12	82	54
Totals	318	180

Free Period Matrix

Grade: 12

DAY	TERM: 1	GRADE:
	-0-	-1- -2-
MON	58	48
TUE	3	12
WED	58	48
THU	82	48

20 13 records displayed

Student Conflict Detail Reporting Options - Entity 001 - WS\OF\FS\SS\A...

Not secure | broker3/scripts11/cgiip.exe/WSservice=30427web/sssrbrws003.w...

Student Conflict Detail Reporting Options

Student Key:

Grade/Grad Yr: 09 / 2024 12 / 2021

Report Format: Section/Term/Days

Printer Orientation: Portrait

Portrait allows 7 periods across.
Landscape allows 9 periods across.

- Print One Conflict per Page
- Double-Space the Report
- Sort Course by Subject
- Print Imbalances
- Print Supplemental Auto Scheduling Arbitrary Scheduling Techniques
- All Courses



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THANK YOU FOR ATTENDING!

