



Mountain Summit 2019 Using the Room Optimizer to it's Fullest!

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Institution Background

Who is Texas A&M University- Corpus Christi?

- 12,000 students and part of The Texas A&M University System.
- The Island offers more than 250 days of sunshine, a Gulf breeze, and mild weather year-round.
- Ad Astra Client of 10 + years
 Schedule
 Platinum Analytics



Presenter Background

Who am I?

- Christie Roberts, Assistant Registrar
- Graduated from TAMUCC- 2006
- Worked in Registrar's Office since 2008
- Campus using Ad Astra since 2007 and our office took over in 2012





Room Optimizer Definitions

Meetings: that were scheduled by the room optimizer

- Drag building and room columns next to the section
- Review what rooms sections were assigned (validation)

Meeting Patterns that were part of the optimized term:

- Sort number of sections in descending order
- Review how many times/days are rarely used

Bottleneck Sections: those that were not scheduled because another section needing the space at the same time

• Expanding sections shows the rooms a section could have been scheduled into if it were available

Room Optimizer Definitions

Bottlenecked Rooms: The most popular rooms at the most popular times

- Find trends in spaces
- Specific features or room types?

Infeasibles: Sections that could not be scheduled because the required space doesn't exist:

- Seat fill
- Invalid preferences
- Tip: Address infeasibles before bottlenecks

Optimizer Explained

- Sandboxes
 - Creates copy of term or previous sandbox and uses an algorithm to schedule unplaced classes into rooms based on preference sets, filters, and settings
- Adjustable Settings
 - Minimum Seat Fill
 - Preference weights
 - Scoring Balance
- Filters
 - Regions, Buildings
 - Campus, Meeting Types, Subjects, Departments, Time Frames

Schedule Policy Development

- Departmentally "Owned" Spaces
 - Deans and Departments now understand how each classroom fits into the SUE puzzle
 - Reports and training
 - Conduct space audits with facilities to monitor actual use of rooms
- Changing The Way We Think About Scheduling
 - Not just a "computer" scheduling but an actual person piecing together the puzzle

Optimize Your SUE Score!





Meet with your campus community and learn who has space!

ENGAGE

LEARN TO LOVE Understanding the SUE score and what it

means for your campus.



OPTIMIZE Optimize course schedule

aspire¹⁸



COMMUNICATE

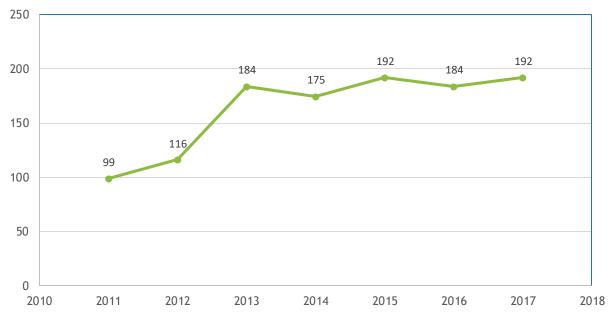
Communication to campus community



More scheduling Opportunities

Space Utilization Efficiency (SUE) Score



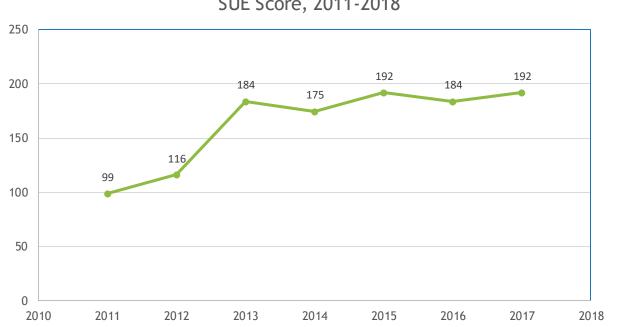


SUE Score, 2011-2018

- TAMU-CC started using Ad Astra in 2007
- TAMU-CC started using the Optimizer in 2013

The Office of the University Registrar began scheduling in Spring 2013





SUE Score, 2011-2018

- Our office scheduled 3,806 courses into classrooms, class labs, studios and computer labs.
- The SUE score improved to an overall score of 192. We received a perfect classroom score of 100 and a class lab score of 92.

The Office of the University Registrar began scheduling in Spring 2013

Best Practices Prior To Optimization

- Data Clean Up (Prior to Term Import)
 - Ensure section imports data is mapped appropriately from the SIS to Astra Schedule
 - Have Facilities Involved / Walk the campus to keep inventory up to date
 - Ensure accurate Room Types and Features
 - Reports check for mis-scheduled classes, Invalid combined sections, etc...
- Special Requests (Between Term Import and Optimization)
 - Placing matching classes, special instructor needs, etc...
 - Documented information due to our office by Data Entry Deadline
 - Mark totally non-standard sections as "Do Not Optimize"
- Department Space
 - Typically allow two weeks for departments to place their labs / seminars in their own space before beginning optimization

Reading Results and Comparing Runs

A Home	lill Dashboards	🛗 Calendars 🛛 📊 Analyti	cs 🎓 Academics	🛷 Events	🖹 Reporting 🎤 Settir	ngs	sysadmin
Settings	Results						
Fall 2017 -	Lectures Only -	70% Seat Fill					
Prepare	to Publish						
Statistics							
Scheduled:	401	Total Meetings:	6473		Do Not Optimize:	0	
Bottleneck:	15	Total Optimized:	427		Online:	0	
Infeasible:	11	Total With Room:	786		Arranged:	0	
		Total Unscheduled:	5687		Invalid Mtg Pattern	: 4559	

Scheduled Obstiteneck OInfeasible

Meetings	Meetings Meeting Pattern Bottleneck Sections Bottleneck Rooms Infeasible													
Filter		•	Scheduled Results											
Show Mtgs:	Modified 💌	×		Subject 🔒 1	Course #	Section	Days	Start Date	End Date	Start Time	End Time	Enrollment	Meeting T	Meeti Time Tem
Room Status	+	0	/ ×	ANTH	190	01	TR	08/23/2017	12/08/2017	07:30 PM	08:45 PM	35	LEC	Secti
Subject	+	\oslash	Ø 🗙	ANTH	150	01	MW	08/23/2017	12/08/2017	06:00 PM	07:15 PM	50	LEC	Secti
Course	+	0	<i>∎</i> ×	ANTH	117	01	TR	08/23/2017	12/08/2017	04:30 PM	05:45 PM	45	LEC	Secti
Department	+	0	Ø X	ANTH	005	01	MW	08/23/2017	12/08/2017	04:30 PM	05:45 PM	210	LEC	Secti
Department	T		Ø 🗙	ANTH	110	01	TR	08/23/2017	12/08/2017	09:00 AM	10:15 AM	45	LEC	Secti
			/ ×	ANTH	100	01	TR	08/23/2017	12/08/2017	03:00 PM	04:15 PM	40	LEC	Secti
			•											

Managing the Change

- Stop pre-assignments and roll forwards!
- Deal with the political porcupine!
- Support policy and change on campus!
- Create What-If? Scenarios!
- Use results and reporting to succeed!

Questions?