



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

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









































Health Science Center at Houston















ALAMO COLLEGES DISTRICT



Sam Houston **State University**















Community College



The rising STAR of Texas









STEPHEN F. AUSTIN STATE UNIVERSITY











HOUSTON

Texas Southern University

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!





WHAT?

What is a SUE score?



ENGAGE

Meet with your campus community and learn who has space!



LEARN TO LOVE

Understanding the SUE score and what it means for your campus.





OPTIMIZE

Optimize course schedule



COMMUNICATE

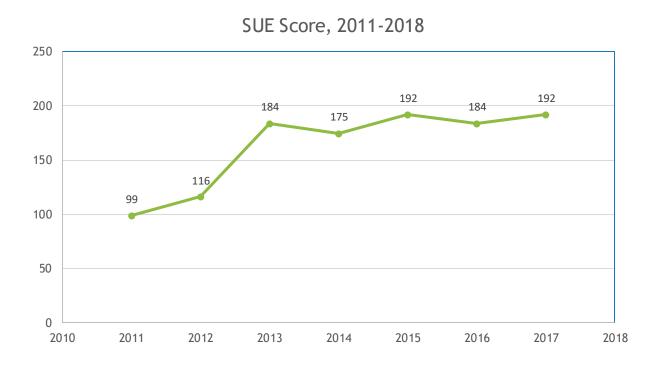
Communication to campus community



OPPORTUNITIES

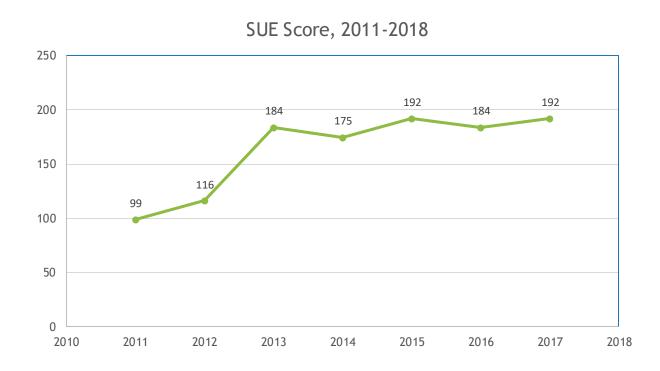
More scheduling Opportunities





- 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



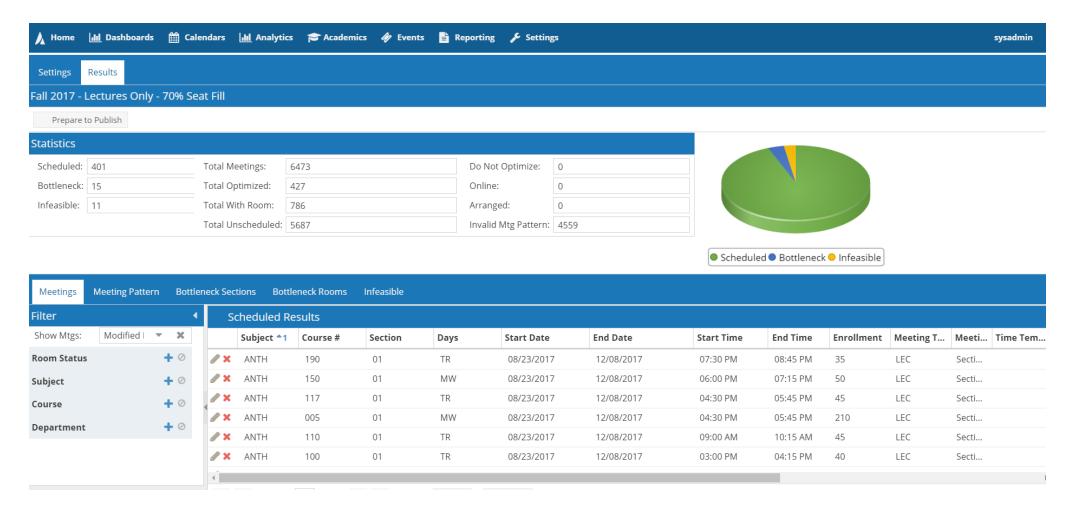
- Our office scheduled 3,806
 courses into classrooms, class
 labs, studios and computer labs.
- The SUE score improved to an overall score of 192. We received a perfect classroom score of 100 and a class lab score of 92.

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



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?