

California Summit 2019

"Recipient of CCA's 2018 Technology Trailblazer Award"

Ad Astra Solutions Portfolio



• Astra Schedule™ - an enterprise class scheduling system that integrates with student information systems to optimize and analyze space utilization, create "what-if" scenario models, and manage rooms for classes, exams, and other resource scheduling. This robust tool also produces custom calendars ad report to enhance visibility into campus scheduling.



• Platinum Analytics™ - a patented, predictive course demand analysis system that assesses student course needs ands suggests high-impact schedule changes to advance student program completion and operational efficiency. This analytics package is couples with professional consulting to enhance application of the data.

Ad Astra Solutions Portfolio



• Strategic Scheduling Services - the HESI is the industry's only peer comparison database of performance indicators for the allocation of faculty and academic space. The HESI Dashboards provide access to this database to benchmark your institution. Your data is refreshed once each major academic term and provides longitudinal tracking and insight to opportunities for balancing instructional resources.



 HESI™ Dashboards - The HESI is the industry's only peer comparison database of performance indicators for the allocation of faculty and academic space. The HESI Dashboards provide access to this database to benchmark your institution. Your data is refreshed once each major academic term and provides longitudinal tracking and insight to opportunities for balancing instructional resources.

Recent Partner "Wins"

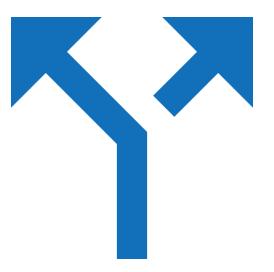
- Stephen F. Austin State University (February 2018)
 - "AASCU Everyone Wins"
 - Faced with substantial budget cuts, the SFASU team's story is about partnering with their Provost, CFO, deans/department chairs to leverage data to increase immediate revenue opportunities, student access to high demand courses, and faculty hiring rubric support.
- Eastern Kentucky University (October 2017)
 - "Building Effective Schedules Leveraging Ad Astra's Services"
 - This presentation highlights the impact of initial benchmarking (HESI™), data/reports that are being leveraged by their deans/department chairs, campus revitalization projects utilizing Astra's space efficiency tools/reports, and financial gains realized through course adjustments (\$450K in cost savings avoidance from Spring 2017 alone).
- John Tyler Community College (October 2017)
 - "Our Story of Scheduling Change at John Tyler Community College"
 - This presentation highlights the transformation of JTCC's schedule development process by infusing analytics into their processes. JTCC's already experienced increases in average student credit hours, class fill rates, and ongoing change management discussions using data to supplement strategic initiatives.
- Kennesaw State University (October 2017)
 - "Future of Academic Scheduling"
 - This presentation showcases their improvements in classroom utilization and meeting pattern allocation, their approach to adoption/buy-in from their academic stakeholders, and their role as a design partner with Ad Astra in creating one application for course and space analytics.

Industry trends...



Student Completions

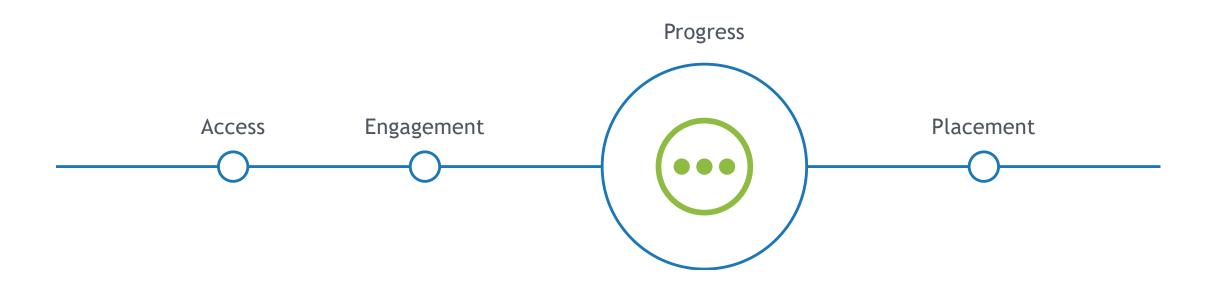


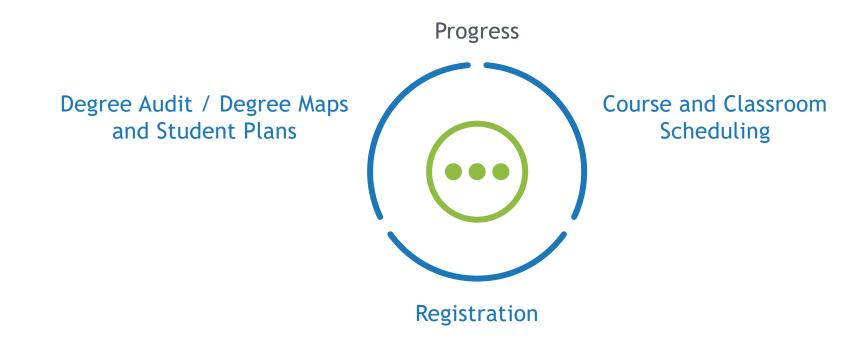


Integrated Planning and Advising



Where do we fit...





What's new?



Momentum to Completion



Momentum Year Defined

Momentum Year is the beginning point for students that helps them find their path, get on that path, and build velocity in the direction of their goals.

Complete College Georgia

Momentum Year Metrics

Momentum Year Metrics include completion of:

- Core English
- Core Math
- Nine Credits in the Students academic focus area
- 30 credits in their first year

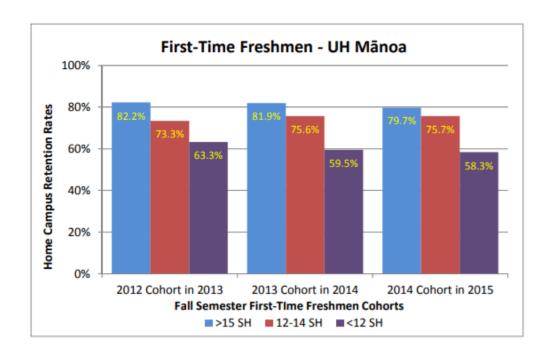
Why is it Important?

"Data shows that *time*, not tuition is the enemy of college completion."

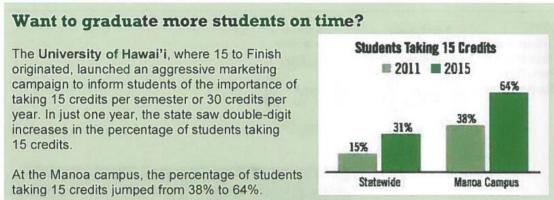
- Stan Jones, President of Complete College America, 2012

https://www.washingtonpost.com/opinions/obamas-tuition-plan-fallsshort/2012/02/02/gIQANouznQ_story.html?noredirect=on&utm_term=.378cd3bb4339

Momentum Impact on Retention

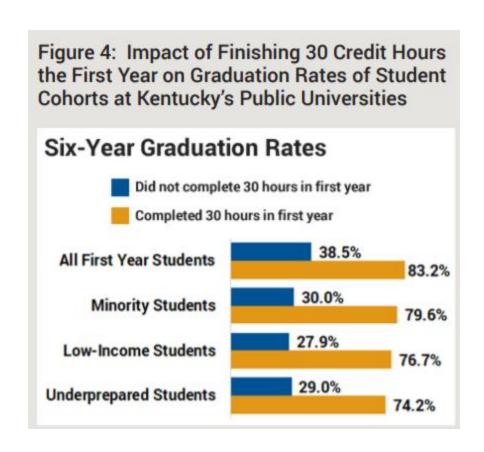


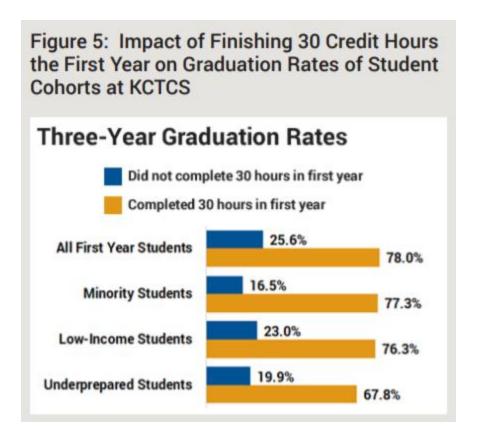




COMPLETE COLLEGE AMERICA

Momentum Impact on Graduation





Financial Impact of Momentum

Effects* of Taking at least 30 Credits in 1st Year on Six-Year Outcomes

Tennessee Board of Regents Institutions, FTEIC Fall 2008 Cohort

	Community College Students	University Students	
Additional credits earned	22	27	
Probability of degree attainment	18pp (25% vs. 43%)	19pp (38% vs. 57%)	
Tuition and fees per degree	-20%	-20%	
Expenditures per degree	-14%	-23%	
Tuition and fees avg.	+\$1,740	+\$4,890	

^{*}Adjusted results, controlling for student characteristics; Source: Belfield, Jenkins, Lahr, 2016.

REPORT | SEPTEMBER 2018

Building Guided Pathways to Community College Student Success

Promising Practices and Early Evidence From Tennessee

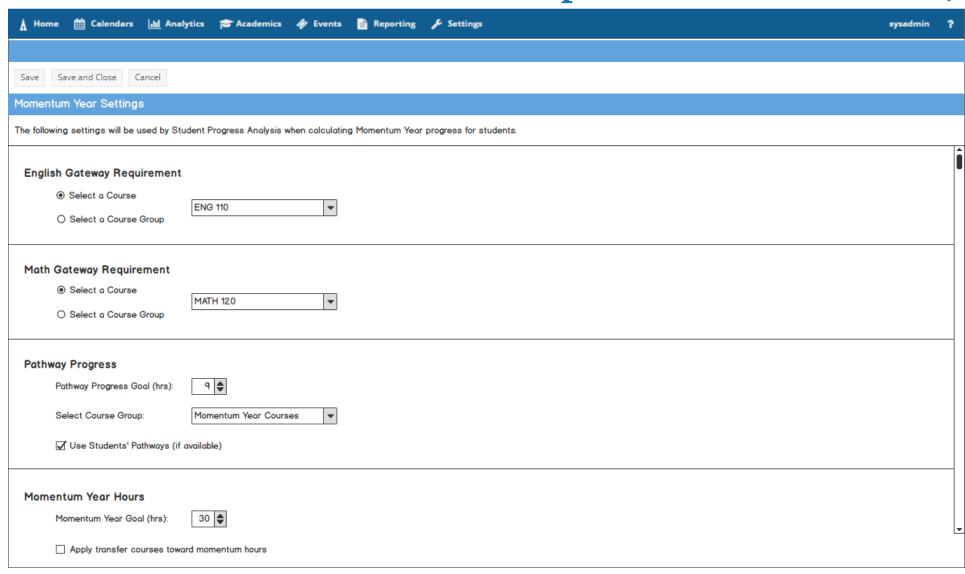
Davis Jenkins | Amy E. Brown | John Fink | Hana Lahr | Takeshi Yanagiura



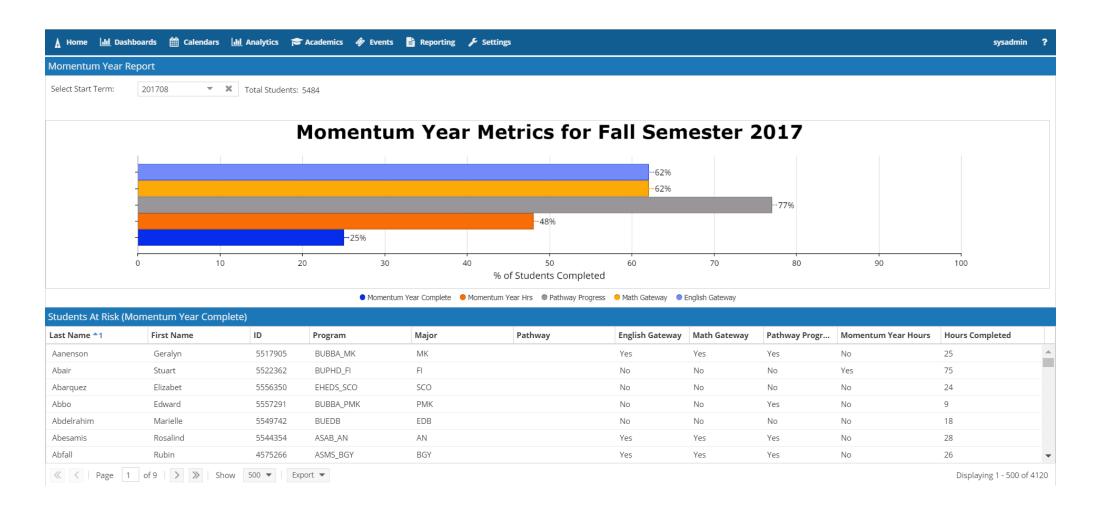
https://ccrc.tc.columbia.edu/media/k2/attachments/building-guided-pathways-community-college-student-success.pdf

Momentum Year Setup

Momentum Year Settings



Momentum Year Results



Velocity Impacts Course Demand

What are Pathways?

Pathways represent the idealized way for students to complete a program of study.

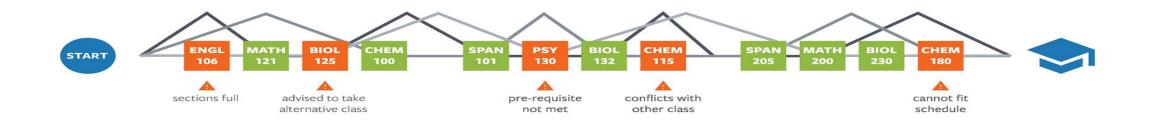
- Prescribed, sequenced set of courses or course groups a student must complete to graduate
- Serves as framework to apply academic history for planner analysis
- Makes enhanced reporting and benchmarking opportunities for student success available

Pathway Progress

Example: On Path Student



Example: Off Path Student



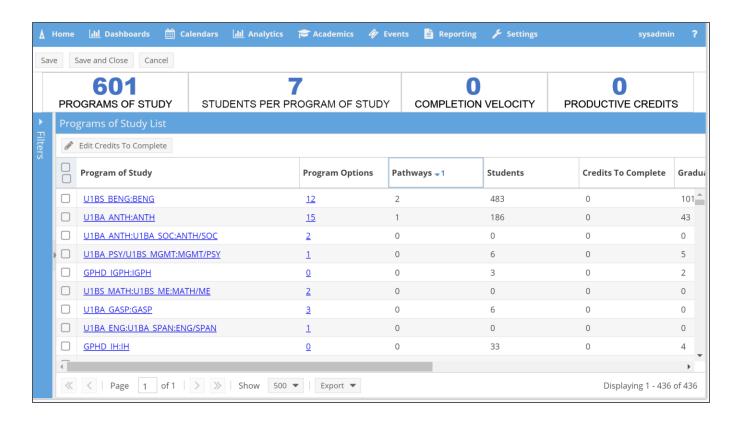
What are Student Planners?

- Student and/or advisor facing systems
- Wide range of functionality
 - Can build degree templates/pathways and assign to students as a starting point
 - Auto-update a student's progress each semester
- Data footprint of planned courses/pathways and are much less complicated than degree audit
- Data gaps
 - New students
 - # of students who participate in planning
 - # of students who complete plan

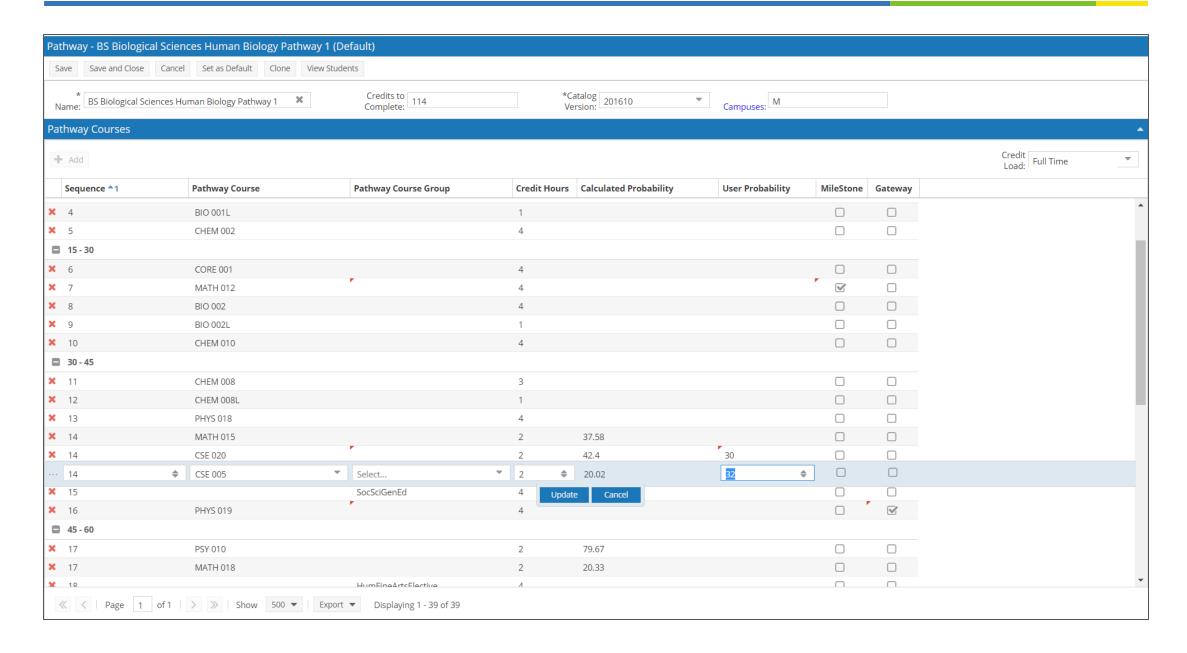
Plans/Pathway Data Integration Approach

	Student Planner Data Integration Institution has a Student Planner System		Pathways Data Integration Institution does NOT have a Student Planner
•	Student and/or advisor plans courses for terms in a system	•	Institution has sequences for programs of study but does not have student plan data
•	Import student planned AND pathways data	•	Import pathways data
•	Apply student planned data in student progress analysis	•	Apply academic history to pathways in student progress analysis
•	Supplement student planned data using pathways and academic history (as necessary)		
•	Student plan is completed (for analysis term and future terms)	•	Student plan is completed (for analysis term and future terms)

Operationalize Pathways



Program of Study Pathway List - U1BS_BIOS:BIOS									
A	Add Pathway								
	Pathway *1	Active Studen 🔻	Total Courses	Credits To Complete	Catalog Version	Default			
×	BS Biological Sciences Developmental Biology Pathway1	0	38	112	201610				
×	BS Biological Sciences Ecology and Evolutionary Pathway1	0	37	101	201610				
×	BS Biological Sciences Human Biology Pathway 1	3611	39	114	201610				
×	BS Biological Sciences Micro and Immunology Biology Pathway1	0	38	114	201610				
×	BS Biological Sciences Molecular and Cell Biology Pathway1	0	39	113	201610				
×	Part time BS Biological Sciences Human Biology Pathway 1	0	39	114	201610				



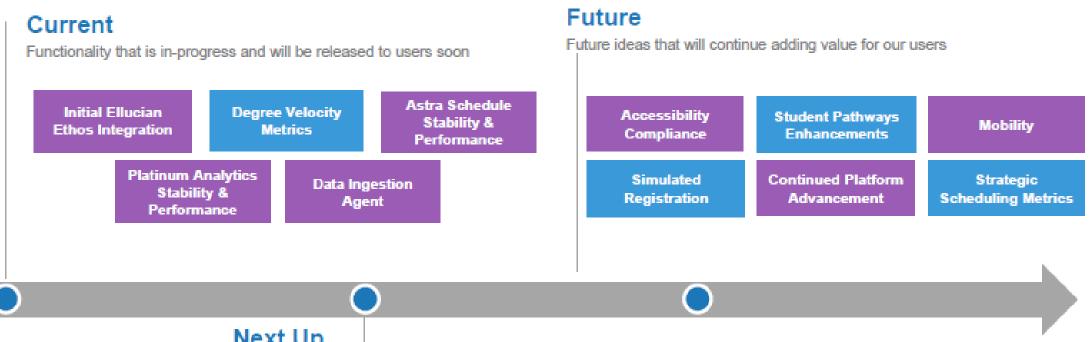
What's next?

Ad Astra's Product Roadmap

LEGEND: Academics

Platform (Academics & Events)

Ad Astra's purpose is to offer products and services that support higher education in its mission to advance successful, timely student completions.



Next Up

Projects that are being defined and validated with availability targeted in the upcoming guarterly releases



Productized Services

- Meeting Pattern Analysis
 - This service looks at current Meeting Patterns and gives data to help inform a meeting pattern grid and policy.
- Readiness Assessment
 - Provides a deep dive into all aspects of scheduling on campus. Reviews important components of the scheduling process and provides recommendations for improvements.
- Degree Velocity Reporting
 - Institutions who need additional insight for improving student degree velocity -- information on moving the needle relative to student success by looking at real-time indicators to allow for additional intervention.

Productized Services

- Structured Scheduling
 - As institutions start to align pathways, advising, registration, and institutional capacity, understanding the options available for structured scheduling is critical. This service uses an institutions student information systems data, along with pathways, to accurately predict course needs and available blocks for scheduling.
- Pathways Design
 - This service will help guide institutions through the process of creating pathway, analyzing them across the curriculum to ensure a successful implementation at scale.
- Instructor Forecasting and Analysis
 - This service reviews instructional needs in the context of scheduling whether its adding instructors for new sections or reviewing adjunct instruction for a downturn in enrollment

