



ConnectCarolina 2018 User Conference

My Course Analytics: Enabling Data-Informed Decision Making

Presenters: Greg Harris & Robert Ricks



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- **Kelly Hogan**, Office of Instructional Innovation, Biology
- **Bob Henshaw**, ITS-Teaching and Learning, Center for Faculty Excellence
- **Rachel Serrano**, ITS-Enterprise Reporting and Data Warehousing



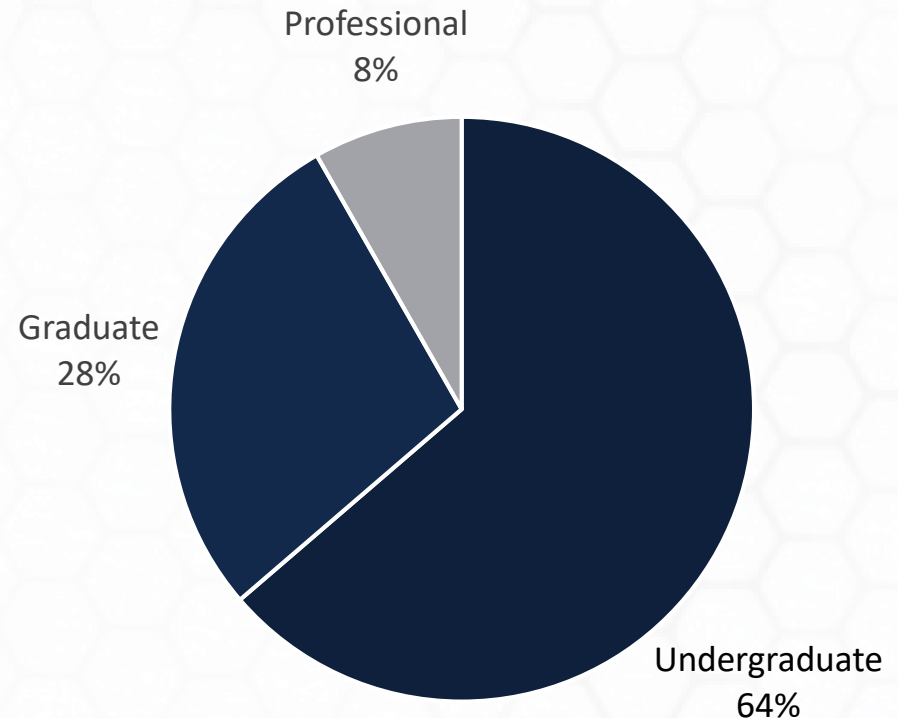
Agenda:

- Student Success at UNC-Chapel Hill
 - Thrive@Carolina
 - Inclusive Courses & Classrooms
- My Course Analytics Dashboard (MCAD)
 - Development
 - Piloting and Provisioning
- Demonstration
- Final Questions



Fall 2018 Highlights

- 30,011 Headcount
- 58% Female
- 20% URM¹
- 40% Need-Based Aid
- 19% First Generation²



1. Students who self-identified with at least one of the following race/ethnicity categories, regardless of citizenship status: Black/African American, American Indian/Alaska Native, and Hispanic.

2. Undergraduates Only



Student Success at UNC-Chapel Hill



- Thrive@Carolina is the University-wide undergraduate student success initiative.
- “UNC-Chapel Hill believes all admitted students can thrive in college, graduate, and grow into lifelong learners.”





We believe student success includes:

- Exploring and growing intellectually
- Engaging in meaningful activities, roles, and relationships
- **Appreciating diverse perspectives as well as developing one's own identity**
- Cultivating a sense of purpose or vocation
- Developing social and emotional skills

We believe success is likely in an environment:

- Promoting a growth mindset understanding of intelligence
- Fostering self-advocacy and resiliency
- Encouraging academic excellence, integrity, and leadership
- Demonstrating concern for the well-being of the whole student
- **Affirming cultural identities and advancing inclusive excellence**



Inclusive Classrooms



An inclusive classroom means...

- The instructor and students move away from assumptions that diversity among students causes disparities...
- ...and move towards the idea that learning environments and course designs lacking structure hurt students unequally.



An inclusive classroom has two structured components...

Course Design



Who's being left behind?

Classroom Environment



Who's not being heard?



Tips for Inclusive Course Design

- Frequent, Low-Stakes Assessments
 - Assessment Evidence from Every Student, Every Class
- Required Practice Before, During, After Class
 - Varied Learning Activities
- Syllabus with Explicit Dates/Deadlines
 - Specific Goals and Objectives



Tips for Inclusive Classroom Environment

- Anonymous Participation
 - Technology or Paper to Collect Answers
- Use Small Groups
 - Assign a Reporter
- Explicitly Promote Access and Equity
 - Syllabus Diversity Statement



Measuring the Impact

- Did those practices impact certain groups of students more than others?
- Are certain groups of students in my classes over- or under-performing compared to other groups of students?
- Where can I get data on the demographics of students in my classes? Have those demographics changed over time?
- Are the demographics of the students in my classes similar or different from the student body overall?



Aspirational Practices (AIR, 2016)

- Activating Data-Informed Faculty Decision Making
 - Individual faculty have access to data and information to support them in designing their work, with special emphasis on student learning outcomes
- Activating a Student-Focused Paradigm
 - The selection and design of institutional research is predicated on a commitment to the success of all students.



My Course Analytics Dashboard (MCAD)



Dashboard Steering Group (Fall 2016)

- **Abigail Panter**, Office of Undergraduate Education
- **Lynn Williford**, Office of Institutional Research and Assessment
- **Debbi Clarke**, Provost's Office
- **Kelly Hogan**, Office of Instructional Innovation
- **Viji Sathy**, Office of Undergraduate Education
- **Allison Legge**, Enrollment and Undergraduate Admissions
- **Katie Cartmell**, Student Retention
- **Candace Powell**, Student Retention
- **Bob Henshaw**, ITS Teaching and Learning
- **Sarah Gaby**, Center for Faculty Excellence
- **Phil Edwards**, Center for Faculty Excellence



Dashboard Requirements (Fall 2016)

- Purpose: Data Exploration and Discovery
- Tool: SAS Visual Analytics
- RLS: Instructors See Their Own Sections Only
- Limitations and Delimitations
 - Undergraduate-Level Courses
 - Fall and Spring Terms
 - Standard Letter Grade Mode
 - At Least 10 Grades Assigned



Dashboard Requirements (Fall 2016), cont.

- Trends Over Time
 - Before/After Changes in Pedagogy
 - Past Terms Only, Avoid Implicit Bias
- Detailed Distributions
 - Grades
 - Student Demographics
 - Intersection (Grades + Student Demographics)



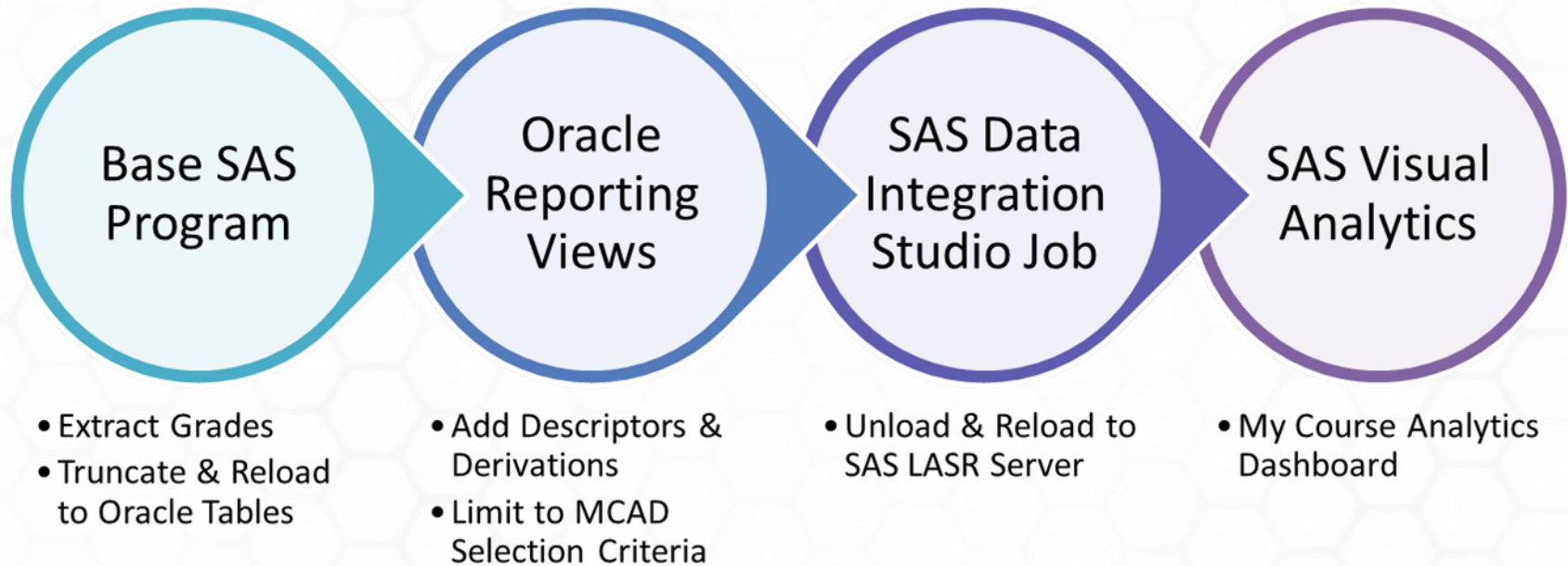
Dashboard Requirements (Fall 2016), cont.

- Demographics
 - Gender
 - Race/Ethnicity*
 - Residency*
 - Pell Recipient
 - First Generation
 - Admit Type
- SAT Percentiles

**Non-Resident Alien reported as a separate "International" category in Residency as opposed to Race/Ethnicity.*



Dashboard Development (Spring 2017)





Dashboard Pilot: Phase 1 (Summer 2017)

- Personal Invitations to Selected Faculty
- “Homework” Assignment
- Feedback:
 - Enthusiasm, Want More
 - Non-Visible Diversity
 - Grades \neq Growth, Current Students
 - “What can I do about this?”

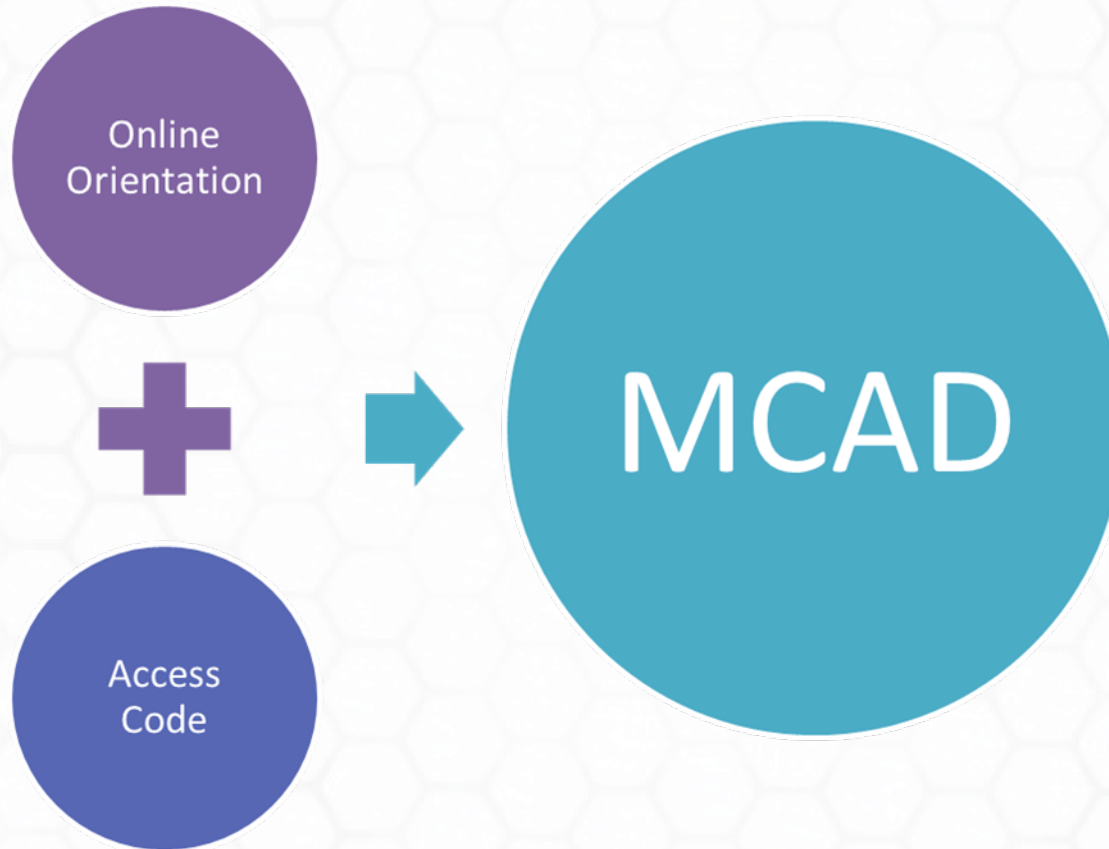


Dashboard Pilot: Phase 2 (Fall 2017)

- Resources and Training
 - Website
 - Extensive FAQ
 - Resources on SOTL, Inclusive Teaching
 - Online Orientation
 - Purpose of MCAD
 - Introduce Inclusive Concepts
 - Address Implicit Bias
 - Provisioning

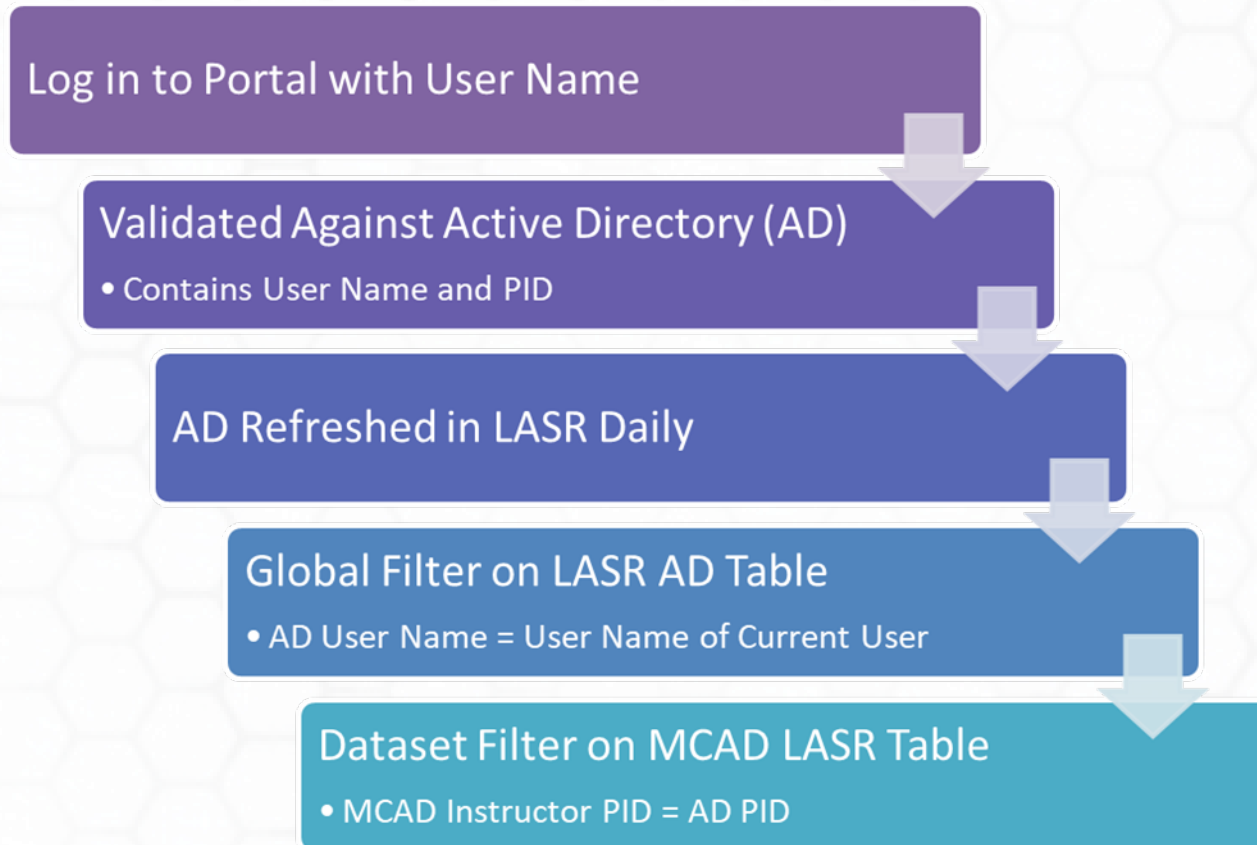


Dashboard Provisioning





Alternative to Row-Level Security





Dashboard Pilot: Phase 3 (Spring 2018)

- Invitation to Selected Departments
- Orientation and “Homework”
- Focus on Inclusive Teaching, MCAD as Tool/Resource
- Feedback:
 - Enthusiasm, Want More!
 - Low Enrollment Sections



Dashboard Enhancements (Summer 2018)

- New Data Elements
 - NC County Tier
 - URM
 - Age Range (Traditional/Non-Traditional)
 - ACT Composite



Dashboard Enhancements (Summer 2018)


- Redesigned Look/Feel
 - Color Scheme
 - Layout
 - Filters
 - Data Dictionary




Go Live (Fall 2018)






- Continue workshops
- Non-email Promotion
- Expand availability
- Explore provisioning
- Identify additional enhancements
- Explore other stories





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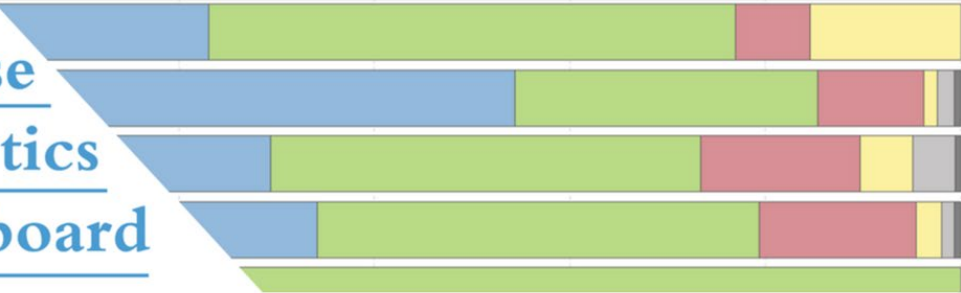


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My
Course
Analytics
Dashboard

Gender Race Residency Admit Type First Gen.

Race/Ethnicity by Course Grade Distribution



Home / MCAD

The *My Course Analytics Dashboard (MCAD)* is designed to provide faculty members with aggregate data on student demographics and grades for all courses they have taught since 2010. The primary goal is to provide instructors with student diversity information that they can use to support their instructional goals. *You are under no obligation to access this information*, but we believe that most faculty members will find it useful. We also offer workshops and resources for helping instructors make the most of the data.

RESOURCES

Navigating the Dashboard

Frequently Asked Questions

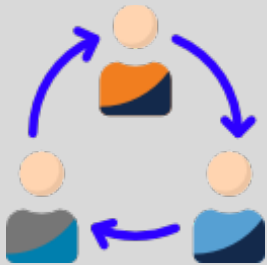


Project Resources

- MCAD Website
 - <https://cfe.unc.edu/mcad/>
- OIRA Website
 - <https://oira.unc.edu/>
- Contact Information
 - Greg Harris, greg_harris@unc.edu
 - Robert Ricks, robricks@email.unc.edu



Making the connections



Thank You for Your Participation!

