

UNIVERSITY OF
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LEARNING TO A GREATER DEGREE

UCM's Data Dashboard and Analytics

Outline

- ★ Theoretical Framework
- ★ Development and Evolution of UCM's Success Framework
- ★ Data Metrics and Dashboards
 - Integration behavioral metrics and academic indicators
 - Pre-enrollment model for academic success
 - Maxient/SSC Campus
- ★ Success/Challenges

Development & Evolution

1990	Development of Suspension Waiver Program (1991 Noel Levitz award)
2004	Reboot of the Suspension Waiver Program (2007 Noel Levitz award)
2005	Development of UCM Student Behavior Team (CARE Team)
2007	Initial integration of academic and behavioral indicators for "at risk" students
2011	Implementation of Maxient Judicial platform / integration of academic and behavioral indicators
2012	Reboot of Academic Alert process
2013	Development of Student Success Framework and Data Dashboard for At Risk Students
2014	Development of Mentoring, Advocacy & Peer Support Office
2015	Redesign of Conditional Admit program to Advantage
2016	SSC Campus, GUIDE
2017	

3

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Early Theoretical Foundation (2007)

Attrition in the first year of college may be exacerbated by the misalignment of college expectations and the college experience. There are multiple indicators of "poor fit" indicating opportunities for intervention.

College Search

Hossler & Gallagher
Predisposition
Search
Adjustment
Choice
Progression/Redirection

College Transition

Person-Environment Fit
Evaluation

In order to positively affect retention, we must first have a deep understanding of the student experience.

4

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Student Success Framework (2012)

During this timeframe, “Student Success” was defined as the realization of a student’s academic potential. Student attrition represented a failure to achieve this potential.

“At Risk” Students were defined as students who exhibited poor academic performance, displayed ineffective social skills, possessed insufficient financial resources, or demonstrated other difficulties adjusting to the learning environment.

The Student Success Framework was designed to identify and systematically remove or help students address interconnected factors interfering with success.

5

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Early Integration of Data Metrics

Academic Indicators

- Academic alerts
- low GPA
- midterm grade deficiencies
- non-attendance
- holds & appeals

Behavioral Indicators

- Social integration
 - behavioral concerns, wellbeing concerns
- Difficulties adjusting
 - policy violations, roommate conflicts
- Urgent matters
 - victim of assault, significant health concern, suicidality

Other Indicators

- Certain demographic factors
 - 1st generation students, students from underrepresented populations, students with disabilities

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UCM Maxient Data Dashboard

Enter student 700# Click on the person from the list generated BANNER_ID | LAST_NAME | FIRST_NAME

Student Address (Local)
 HOME_ADDRESS | CITY | STATE | ZIP | BEST_PHONE | EMERGENCY_CONTACT | EMERGENCY_PHONE

UCM_EMAIL_ADDRESS | GENDER | AGE | ETHNICITY | WHITE | BLACK_AF... | ASIAN | AMER_IND... | NAT_HA_P... | RACE_UNK...


COLLEGE1 | MAJOR1 | ADVISOR | HS_RANK | ACT_COMP | TRANSFER | Veteran | Athlete | Greek | OAS | Int | _1STofFinish | Reason

ACADEMIC RISK | OVERRIDE_STANDING | LAST_STANDING | Class_Rank | tot_attempt_ho... | ucm_attempt_hours | tot_earned_hours | ucm_earned_h... | cum_gpa | ucm_gpa | prev_cum...

Enrollment Validation Concerns (Current term) | COURSE | Instructor | Drop_D... | **Academic Early Alerts** | COURSE | INSTRUCTOR | Type | **Midterm Grade Deficiencies (Current term)** | COURSE | GRADE

Active Appeals | Date | APPEAL | **Holds** | HOLD_PLACED | HOLD_DESC | HOLD_REASON | **Current Schedule** | TERM | CRN | SUBJECT | CRSNUMB | Campus

DESCRIPTION | SPACMNT_COMMENT | date | Entered_by



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Financial Risk and Behavioral Concerns


FINANCIAL RISK | FATHER_EDUCATION | MOTHER_EDUCATION | AID_YEAR | PARENT_AGI | PARENT_CONTRIBUTION | AID_YEAR

MAXIENT CONCERNS | Nature_of_Risk | Managed_By

Date | Role | CHARGE | DP_FINDING | SUSPENSION | EXPULSION | BAN_FINDING

RISK REDUCTION
 Risk Education Completed | AlcoholEDU_1 | AlcoholEDU_2 | HAVEN | E_CHUG | BASIC | DRUG | Campus Employment | Campus_Emp | Student Involvement | Link to Experience Transcript

Who Is Working With Student
 Contact_1 | Comments
 Contact_2 | Comments
 Contact_3 | Comments



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Dashboard Usage



- Levels of Risk
 - This process allowed us to identify and communicate to partners if a student faced heightened risk in certain areas without revealing specific confidential information
- Effect of collaborative communication
 - Provided proactive and supportive intervention to at-risk students
 - Reduced overlap of campus resources
 - Positively affected student retention and persistence toward graduation

9

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Pre-enrollment Model of Student Success

Probability estimate the student will earn 24 credit hours upcoming Fall and Spring term.

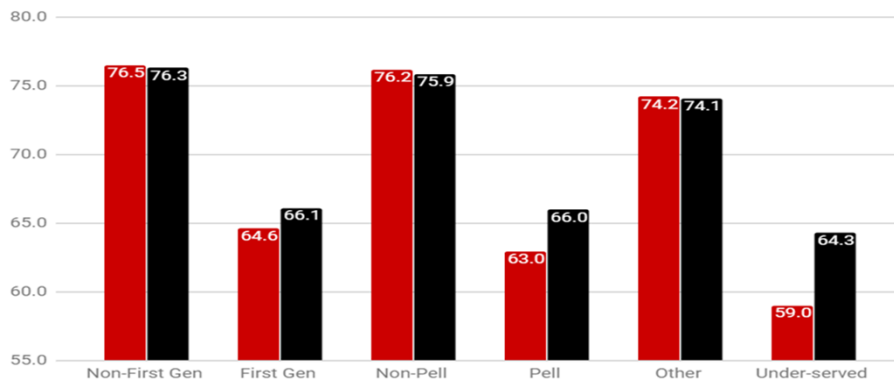
- HS GPA
- Gender
- ACT Comp.
- Credit hours enrolled
- Expected Family Contribution

10

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Using data to identify opportunity

Consider target populations to reduce achievement gap.



11

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EAB's Student Success Collaborative- Campus

- Identify and prioritize students needing extra assistance in critical courses,
- Evaluate and compare alternative major decisions based upon predictive academic performance,
- Assigns predictive model risk scores.
- Engage in conversations with students who may be at-risk in their chosen academic program,
- Simplify intervention by aggregating previously disparate data into a holistic view of students' progress.
- Follow up on progress Reports and Alerts.

12

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SSC Campus Dashboard

Course Grade D/F: 9

Repeated Courses: 3

Withdrawn Courses: 0

Missed Success Markers: 1

Cumulative GPA: 2.14

Total Credits Earned: 30.00

Credit Completion % at this institution: 70%

Predicted Risk Level: High

Nursing
Bachelor of Science
Health, Science and Technology

Advisors:
Andrea Huggans, Clarinda Dir., Lacey Hites

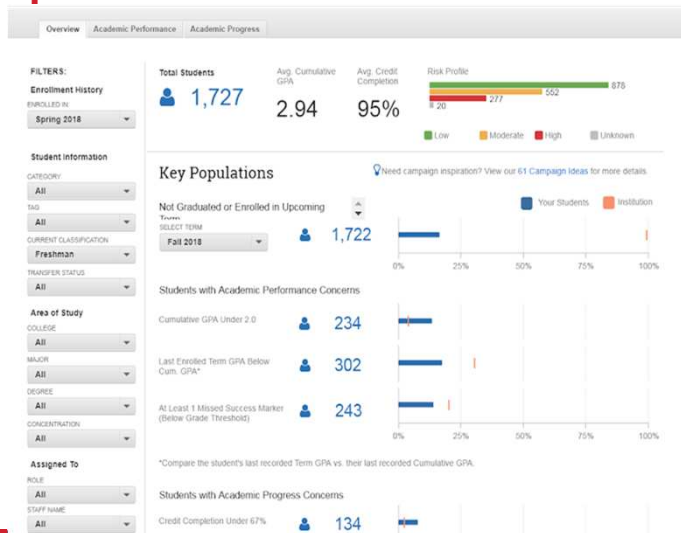
Forecast Text:
This student is forecast to be at high predicted risk level of not graduating in their current major. If the student does not currently have a declared major, the predicted risk level indicator measures likelihood to graduate in any major at the institution. The forecast predicted risk level level is influenced by a combination of factors, listed below:
Ability to Complete: The student likely earned a lower number of credits each term.
Progress Toward Degree: The student likely attempted a lower number of credits each term.
Course Performance: The student likely reached a lower-than-average level of performance across many or all fields of study, and/or has reached a lower-than average level of performance in fields of study most associated with graduation in their currently declared major(s).
Course Variety & Load: The student likely attempted coursework in a limited variety of departments in limited fields of study.
Coursework at Prior Institution: Student has a lower-than-average level of performance in transfer coursework across many or all fields of study, and/or student has reached this level of performance in the fields of study most highly associated in the currently declared major(s). It is also possible the student's grades for coursework have not been articulated. This factor only applies if your institution has included transfer coursework in the predictive model.
High School & Standardized Testing: The student has no coursework at the institution, but performance in high school courses or standardized testing was at a lower-than-average level. This factor only applies if your institution has included high school and standardized testing in the predictive model.

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SSC Predictive Model Data Points

Performance	Progress	Program of Study	Pre-Enrollment	Other
Cum GPA	Completed Terms	Current Major	ACT/SAT Scores	International student indicator
DFW Count	Credits since last major change	Major/Skill Alignment	Student Ethnicity	Readmit Indicator
GPA Trend	Earned-Attempted Credit Ratio	Number of Current Majors	HS GPA	First Generation Indicator
Grade Variance		Number of Former Majors	Transfer Indicator	Pell Eligible Indicator

Population Health Dashboard



Milestone Data Review

Pre-Enrollment	<ul style="list-style-type: none"> Pre-enrollment risk indicator: probability of completing 24 credit hours
Week 1: Enrollment Verification	<ul style="list-style-type: none"> Pre-Enrollment Risk Attendance for first class
Week 3/4: Academic Check-up	<ul style="list-style-type: none"> Week 4 Report from Faculty Pre-Enrollment Risk SAP Status SSC Campus Risk
Week 6: Progress Report (Mid-Term Grades)	<ul style="list-style-type: none"> Pre-Enrollment Risk SAP Status SSC Campus Risk Number of C or Below on Progress Report- Other Alerts
Week 9/10: Academic Check-up/Risk Indicator	<ul style="list-style-type: none"> Week 4 Report from Faculty Pre-Enrollment Risk SAP Status SSC Campus Risk
Week 12/13: Advising Appointment and Term Enrollment	<ul style="list-style-type: none"> Advising Appointment Made SSC Campus Risk GPA UCM Holds
End of Term Academic Status	<ul style="list-style-type: none"> SSC Campus Risk Final Term Grades Academic Standing

Success/Challenges

17

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Data Systems Panel

18