1. **Overview of Analytics Features**

2. Navigate Reports

3. Predictive Model & Population Health Dashboard
Analytics Enable Planning, Evaluation of Actions

Leverage Navigate’s Analytics to Inform Practice

Plan
- Trend graduation rates - Institution Reports
- Forecast retention - Predictive Model
- Track performance, progress
  - Population Health Dashboards
  - Advanced Search
  - Success Markers

Act
- Increase access - Scheduling, kiosks
- Intervene - Messaging, campaigns
- Coordinate around support needs
  - Early Alerts – Progress Reports
  - Referrals – Alerts and Cases
  - Detail Interaction – Summary Reports
  - Smart Student Profile

Evaluate
- Measure outcomes
  - Effectiveness Analytics
- Oversee services
  - Utilization Reports
  - Activity Dashboards

UW Milwaukee
What was that?

Analytics Tab

Reports
1. Overview of Analytics Features

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1. Overview of Analytics Features

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Building Your Predictive Model

Data Collection

**Historical Data Extraction and Validation**
- Institutional student data is collected
- Coverage is evaluated for all data points available for inclusion in the SSPM

Configuration

**Major and Grade Mapping**
Inactive or outdated major or grade records are coded to align with the current-day equivalents.

**Outcome Selection**
Your SSPM is configured to evaluate likelihood to persist to the next term.

Deployment

**Model Fitting and Review**
The model (a combination of several penalized logistic regression models applied to different subgroups of students) is trained using the historical data.

**Accuracy and Distribution Analysis**
Data Points Used in Your Model

Source: As our Data Science team created your model, they evaluated many different data points for their predictive quality. Some of these data points are available directly in your SIS, others are derived by our Data Science team using proprietary methods.

Type: The model training process uses both variable data points, such as academic progress and performance metrics, as well as static factors, such as demographic indicators and pre-enrollment data.

Impact: These data points have different importance in the model depending on their evaluated predictive power, and the weight of a given factor can change over the course of a student’s time at the institution.

Sample Predictors Used in Your SSPM

Transfer Indicator
(Pulled from SIS)

Ratio of Credits Attempted Current Term to Prior Term
(Derived Predictor)

Number of Completed Terms
(Academic Progress Data)

High School GPA
(Highly predictive for incoming students)

Cumulative GPA
(Highly predictive for returning students)

For a full list of all predictors included in your model, ask your Strategic Leader for a copy of the Student Success Predictive Model Report.
Feature Spotlight – Predictive Model

Benefits of Predictive Analytics

**Visibility**
*Uncover Hidden Student Risk*
- Show where risk is distributed across institution
- Surface risk that would not otherwise be visible

**Early Intervention**
*Act Early, Avoid Later Problems*
- Allow early risk prediction based on pre-enrollment factors
- Show early if students are off track in major

**Triage**
*Prioritize High Risk Students*
- See how students in a single list/cohort compare in terms of risk
- Decide which students to target first

**Impact**
*Risk as Indicator of Progress*
- See whether students are improving
- Reduce “pools” of risk

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**Early, General Guidance for Assessment & Intervention**
- Supplements but does not replace individual assessment
- Reflects historical trends, not future certainty
Population Health Framework

EAB Framework To Help Advisors Best Serve Students

Low-Concern Students
- Time Saved

Moderate-Concern Students
- Time Saved
- Proactive Intervention

High-Concern Students
- Intensive, Holistic Support
- Proactive Intervention

Differentiated Care Strategies

Provide and Coordinate Holistic Support
Work closely with these students and work with support offices as needed

Proactively Monitor and Intervene
Use caseload management strategies to catch problems before they escalate

Enable Effective Self-Guidance
Provide access to information and automated nudges so students can self-advise

Source: EAB interviews and analysis.
UW Milwaukee’s New Predictive Model

**Outcome:** A student’s likelihood to persist to the next term

**Risk Scores:** Each student is scored between 0.0 and 1.0

**Thresholds:** Set how scores are bucketed into high, moderate, and low-risk

![Risk Score Diagram]

- 0.34
- 0.82
Demo

Population Health Dashboard
1. Overview of Analytics Features
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Bonus – Assessing Impact in Navigate
Assessing Impact – Defining Metrics

Transformation Metrics

Average Time and Cost to Degree
Retention, Persistence, and Graduation Rates
Achievement Gap for Key Populations
Summer Melt

Outcome Metrics

Student Performance
- GPA or Academic Standing
- Avg grade, DFW rates
- Midterm to final grade change

Student Progress
- Credits attempted, earned, and completion %
- Major changes

Enrollment
- Registration, re-enrollments
- Application yield
- Earlier registration, holds cleared

Other
- Applications to graduate
- Staff or student time savings and

Process Metrics

Appt. Activity
- Total appts., appt. per student
- No-show or cancellation rates
- Summary reports filed

Interventions
- Students contacted
- Scheduled and completed appts
- Completed actions
- Increased use of support services

Case Management
- Progress Report response rates
- Alerts issued
- Cases opened and closed

Student Adoption
- Mobile app adoption and utilization
- Completed to-dos
- Appts scheduled by students
Assessing Impact in Navigate

Transformation Metrics

- Intervention Effectiveness

Outcome Metrics

- Student Performance
- Student Progress
- Enrollment

Advanced Search

Process Metrics

- Appt. Activity
- Interventions
- Case Management
- Progress Report Campaigns

- Macro Level: Activity Dashboard
- Meso Level: Activity Reports
- Micro Level: 7 Reports

- Progress Reports
- Alerts, Cases

Student Lists

Excel
- Pivot Table
- Vlookup
- Find, Replace
- Concatenate
- Countif

Student Adoption

Student Milestone Dashboards

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