Oregon Tech Senior Project
Improving Retention

OREGON TECH P.A.S.S. SYSTEM

BY: BRITTANY KENISON, BEN MANION, AND COREY WHITNEY
Agenda

• About Senior Project
• Project Objective
• Current Retention Efforts
• Phase I: Research & Planning
• Phase 2: Design
• Phase 3: Development & Implementation
• Future Iterations
• Demo
About Senior Project

- The Senior Project is the final component in Oregon Tech’s career-ready curriculum.
- In their senior year, Oregon Tech B.S. students must complete a year-long Senior Project sequence.
- The Senior Project sequence is intended to entail a major design experience that exposes students to real-world challenges in their major.
Project Objective

Develop a system for Oregon Tech to import and aggregate data based on student demographics and other factors to determine possible stop-out factors.
Current Retention Efforts

Early Warning System: EMAS
- High Cost
- Functionality
- “Push” System

Hired Retention Coordinator March 2013
- Barb Conner
Phase 1 – Research and Planning

Key Findings
• Behavior is more telling than demographics
• Student stop-out risk involve multiple factors
• Upperclass student retention can be improved by reducing time to degree

Academic Alerts
• Mid-term grades too late in the term
• Faculty participation critical in retention program

Financial Alerts
• Financial issues are often preventable with sufficient notice provided to student

Engagement Alerts
• Track departure of high performing students
• Social and campus engagement
Phase 2 - Design

- Create dummy data set
- Filter into pre-defined reports
- Import data from Excel sheet

Data Attributes:
- Student ID
- Term
- Term GPA
- Cumulative GPA
- Hold Code
- Major
- Pell Recipient
- Underrepresented Minority
- Gender
- Status
- Class Standing
Phase 3-Development & Implementation

Pre-Warning Report

• Students with GPA between 2.0 and 2.5
• Added to “watch list” to prevent probation

Reports

• Demographics Report
• GPA by Class Standing
• GPA by Major
Future Iterations

More Data
- Campus/Online student
- Financial Standing
- Campus socialization

More reports
- Align with new board
- Consider a more robust reporting system
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<th>Gender</th>
<th>Active</th>
<th>Inactive</th>
<th>Total</th>
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*Data is from dummy data set and does not reflect true data*
Acknowledgements

- Karen Marrongelle
- Joe Holliday
- Brian Fox
- Barb Conner
- Jeff Dickson
Demo