

Charting the Future Initiative (Phase 3)

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Background

Goals & Objectives

- Increase retention of students at each partner school
- Increase 4- and 6-year graduation rates at each partner school
- Improve financial standing of each partner school
- Improve the Indiana state economy through increased employment opportunities due to increased degree achievement
- Identify/assess key retention processes and apply process improvement at each of the partner schools





Selection of Projects

- Lean Six Sigma Consultants conducted workshop on retention challenges and opportunities at USI in February
- Outcomes
 - Retention Process Map for USI created by employees and students
 - USI chose three topics for process improvement
 - Retention of First-Year Underrepresented Students
 - College of Liberal Arts Advising
 - Strategic Deployment of Merit Scholarship Funds
 - Identified three USI employees to learn and apply the Lean Six Sigma model to generate process improvements in the three topic areas
 - Received training through in two week-long workshops in March and April



Overview Lean Six-Sigma Methodology

Lean: Focus on eliminating Waste in Organizational Activities and Processes.

• NVA, 5S, Process Flow Improvement, Changeover Reduction, Standard Work, Visual Controls, and Mistake Proofing.

Six-Sigma: Focus on reducing process variation due to defects by applying the DMAIC method

• Define, Measure, Analyze, Improve, and Control



Project 1: Retention of First- Year Underrepresented Students

The Team



Tim Fitzgibbon Adivising



Cathy Nickens Financial Aid



John Race New Student and Transitional Programs

Angie Nickens Student Support Services



Nathan Payne Center for Campus Life



Erin Altman Housing and Residence Life



Charter

Problem Statement

 After the first year of implementation of 2021-2025 strategic plan, retention of underrepresented students was 5.9 percentage points below the target goal of 66.8%

Current Process

- Lack of formal process
- Goal of Project
 - Increase first-year retention rate of underrepresented students to the 2023 target identified in the 2021-2025 strategic plan

Business Impact

• Revenue generation and improved student persistence and completion





Suppliers, Inputs, Process, Outputs, Customers (SIPOC)

- SIPOC helped us understand the current process, or lack there of, the institution has in place to help retain underrepresented students
 - We learned the institution has certain services in place to serve underrepresented students, but there is no university-wide systematic coordination of these services.





Voice of the Customer (VOC)

- In order to better understand the reasons why underrepresented students do not return to USI after their first year, a survey was created
 - Survey focuses on time period from first day of fall semester to end of spring semester
 - Questions specific to overall experience in utilizing campus services, relationships with faculty/staff, sense of belonging, and experience of being student of color on predominately white campus/community
 - Distributed survey via e-mail and postal service (postcard w/ QR code)
 - Distributed to 1,091 students who attended USI between 2018 and 2021
 - Retained and non-retained students
 - Goal was to receive at least a 25% response rate
 - Survey deadline: August 29, 2022





Next Steps

Complete the process map

 Identify areas and/or services focused on retaining underrepresented students but were not identified in the university-wide process map that was conducted by the Lean Six Sigma team

Measure phase

• Interpret data

Timeline

- September 30th Complete Measure/Analyze phases
- October 31st Complete Improve/Control Phases





Project 2: Process Improvement for College of Liberal Arts Advising

The Team



Shelly Blunt Associate Provost for Academic Affairs



Renee Rowland Director of Advising



Brody Broshears Assistant VP for Academic Success



Urska Dobersek Associate Professor of Psychology



Jason Hardgrave Chair of History Department



Susan Todd Academic Advisor



Charter

Problem Statement

• After first year of implementation of the 2021-2025 strategic plan, the College of Liberal Arts retention rate was 65.6% compared to the university average of 69%.

Current Process

- Succinct process in advising center
- Faculty advising varies by academic discipline (department)
- Scheduling of advisees vary by faculty advisor
- Some administrative assistants and department chairs are involved in the advising process
- Faculty advisors don't use a "universal" system to keep notes, appointment times, etc.

Goal of Project

- Increase retention rates for the College of Liberal Arts by 5% by 2025
- Increase graduation rates for the College of Liberal Arts by 5% by 2025
- Create positive and consistent advising interactions for 2nd, 3rd, and 4th year students in the College of Liberal Arts

Business Impact

• Revenue generation and improved student persistence and completion





SIPOC

Suppliers	Input	Process	Outputs	Customers
Students	Student interests (majors/minors)	Students attend orientation	Student belonging to Liberal Arts College	Students
Faculty	Academic Programs	Students sign up for classes	Classes offered by semester	Students
Liberal Arts College	Class Schedules	First time freshman goes to advising center through 1 st year	Schedule for Semester	Students/Faculty /Advisors
Academic Programs, Students, Advisors	4-year Plans	Transfer students go to faculty advising through graduation	Graduation Rates	Students and University
Financial Aid Office	Financial Aid	2 nd year students transition to faculty advising once completing 1 st year in advising center	Persistence & Graduation rates	Students & University





Voice of Customer (Survey Results)

- I Survey conducted to find voice of customer
 - 106 respondents
- 26% of students were not satisfied with the overall advising process
- 27% of students were not satisfied with their Advising Center experience
- Same 38% of students found the transition process from Advising Center to faculty difficult to understand
- 17% of students were not satisfied with their Faculty Advising experience

Measure



Next Steps

- Identify Root Causes
- Validate Root Causes
- Tollgate with Sponsor
- Improve Phase





Project 3: Strategic Deployment of Merit Scholarship Funds



Andrea Gentry Director of Development



Joanna Riney Associate Director of Student Financial Assistance



Ryan Ross Manager of Foundation Scholarships



Shawn Robey Student Financial Success Specialist



Charter

Problem Statement

• Over the past 3 years, merit scholarship funds have been deployed to 64% of eligible* undergraduates who also had the greatest financial need**.

Current Process

• Merit scholarships have been awarded based almost exclusively on academic eligibility.

Goal of Project

In 2025, increase the deployment of merit scholarship funds to 80% of eligible undergraduates who also have the greatest financial need.

Business Impact

Recruit new students, generate revenue, and improve student persistence and completion

*Eligibility is based on academic performance

**Students with greatest financial need are students with expected family contribution below \$30,000





Suppliers, Inputs, Process, Outputs, Customers (SIPOC)

SIPOC helped us understand the current process the institution has in place to distribute merit scholarship funds.

• We learned the institution distributes merit scholarship funds based primarily on academic performance with limited consideration given to student financial need.





Root Causes

Prioritized root causes

Policy and procedure

Committees









Next Steps

Improve

- Identify and test best improvements that address the root causes.
- Prioritize and implement solutions



Our Experience

- Learned how to solve a problem applying the Lean Six-Sigma method
- Interacted with peers and administrators in other universities in Indiana
- Opened opportunities to communicate and work with university staff as a team
- Observed close applications of statistics
- Explored how important the Lean Six-Sigma method in quality improvement not only in industries but also in educational institutions
- Plan to use the Lean Six Sigma methodology to improve processes in the future





