John Bikowitz
Associate Professor and Program Chair, Mathematics
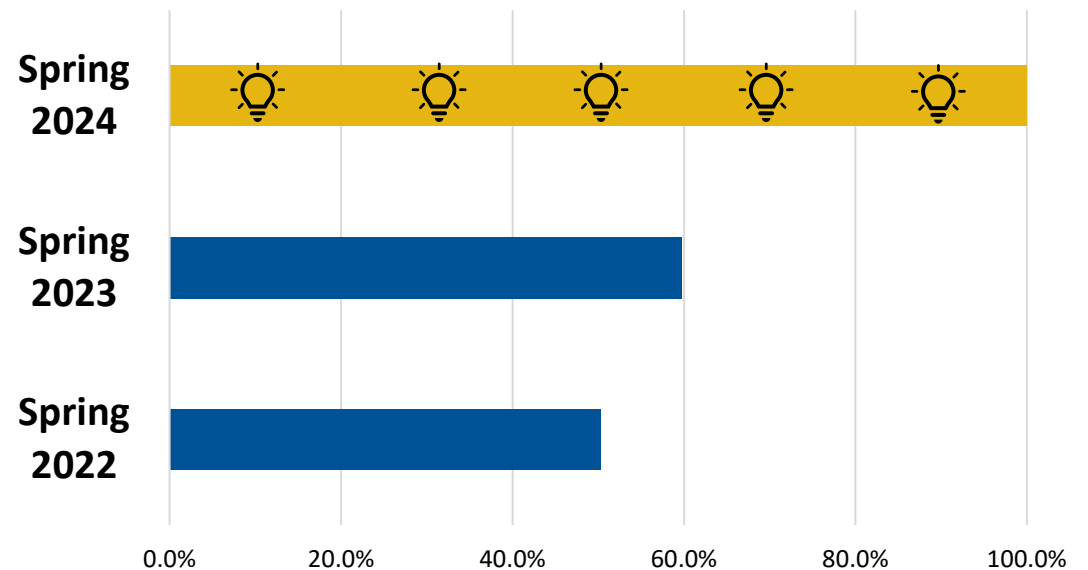
Raksha Patel
Professor, Mathematics

Capstone Overview: AI Based Adaptive Learning Platform

Project Description:

Evaluate the effectiveness of an AI based adaptive learning platform for improving student success rates in college algebra courses.

Rationale:

Success for MAC1105/C

Term	Success Rate
Spring 2024	(highlighted bar spanning to 100%)
Spring 2023	~60%
Spring 2022	~50%

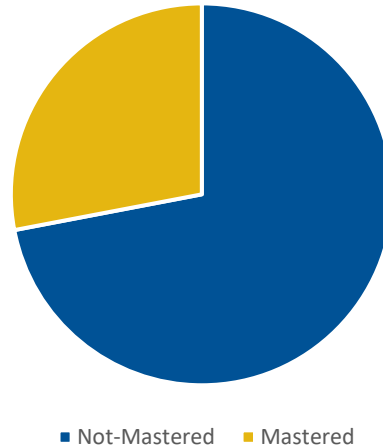Axis: 0.0%, 20.0%, 40.0%, 60.0%, 80.0%, 100.0%
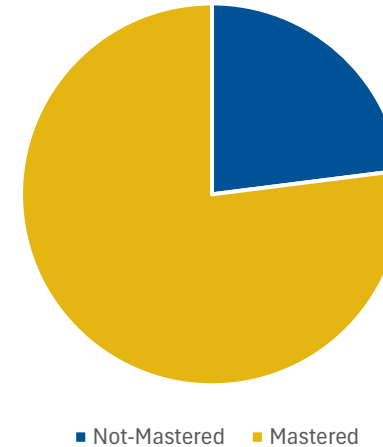
Capstone Results

Methodology:

Faculty created and piloted **four MAC1105 and MAC1105C courses both F2F and Online using ALEKS.** ALEKS is an artificially intelligent learning and assessment system.

Initial Knowledge Check

EOC Learning Gains

■ Not-Mastered   ■ Mastered

■ Not-Mastered   ■ Mastered

- Compare **final success rate data**
- Meet with Math Faculty to **discuss potential adoption**
- **Scaling** initiatives