The Societal Problem

College students struggle to complete a college degree. A large percentage of these students do not complete a degree as a direct result.
Problem Evaluation

- A student may change his or her major.
- Some students are undecided in regard to a major.
- Students often withdraw from classes.
- A student may have \textit{a priori} knowledge of course material.
Retention & Graduation Rates

Fall-to-Fall Retention Rate

Six-Year Graduation Rate

Five-Year Graduation Rate

Four-Year Graduation Rate

Projections Based on Progressive Enrollment Patterns and SCHEV IPS Targets

[1] Enrollment, Retention and Graduation Rate Dashboards
The customer base includes the 4471\(^1\) colleges and universities in the United States.

[1] National Center for Education Statistics
The Solution: KnowledgeWorks

KnowledgeWorks is a degree planning and evaluation tool.

Three areas are considered:

- knowledge of an academic area
- previously acquired credits
- degree progress
The Approach

- An augmented placement or transfer exam will measure a student's skills and knowledge in his or her area of study.
- Follow up examinations will be performed before the start of each academic year.
- Suggestions will be made based on the information obtained in the examinations.
The Components

The following hardware is required:

- Database Server
- Web Server
- Desktop Computers

The following software is required:

- A Database Such as MySQL
- Web Server Software Such as Apache
The Competition

- LEO Online
- DegreeWorks
- SAGA
The Benefits

The potential benefits of KnowledgeWorks include:

- A higher student retention rate
- A higher student graduation rate
- Less strain on advising staff
The potential problems of KnowledgeWorks include:

- The initial data entry
- Maintaining the above data
- Training advising staff to use KnowledgeWorks
References
