Project Goal

Increase the number of engineering graduates at Iowa State by 100 per year to approximately 900 graduates annually. Included with this goal is increase in the percentages of women and minority graduates in engineering at Iowa State and the number of pre-engineering students at Des Moines Area Community College.

Logic Model Planning

Resources → Activities → Outputs → Outcomes → Impact

Sustainable Outcomes:
1. DMACC’s pre-engineering program will increase the number of engineering graduates at Iowa State by 100 per year to approximately 900 graduates annually.
2. DMACC’s pre-engineering program will increase the total numbers of women and minority graduates.

E-APP supports prospective engineering transfer students with curriculum planning, advising, and support for community college pre-engineering students.

Building a culture that embraces transfer student programming through professional and program development

Leveraging learning community best practices to retain students at the second- and third-year levels, ultimately contributing to higher graduation rates

Using synergistic partnerships (e.g., with ISU Extension) to develop new resources and create interest in engineering study and careers

Challenges

Recruiting and retaining women to make up 20% of engineering graduates

Measuring and documenting the SEECK Effect to improve and sustain effective practices and promote a culture of evidence

Future Inquiry

Increasing data sharing between community colleges and Iowa State to better understand background characteristics of community college transfer students

Using the data to predict success in engineering for community college transfer students

Determining how E:TEC outcomes can be systematically infused across the University Extension Network

Grant No. 0653236, July 2007—July 2012

This material is based upon work supported by the National Science Foundation under Grant No. 0653236. Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.