Project Goal

Increase the number of engineering graduates at Iowa State by 100 per year to approximately 900 graduates annually. Included with this goal are increases 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**
- O1. Learning Village
- O2. Curriculum
- O3. Advising
- O4. Networking

**Activities**
- E2020 Scholarship Program
- DMACC’s EGR 100
- Innovative curricular design for E2020 program

**Outputs**
- DMACC pre-engineering students have a terminal pathway to guide their transfer to Iowa State.
- Formal and informal influencers throughout Iowa are becoming aware of resources that can support and promote interest in engineering careers.

**Impact**
- To enhance first- and second-year learning experiences, the project will continue.
- The program will be continued.
- Policy Briefs

**Sustainable Outcomes**
- 1. DMACC’s EGR 100 targets students with key learning goals in effective communication, critical thinking, and problem-solving skills.
- 2. Longitudinal qualitative and quantitative assessment of retention and enrollment of College of Engineering transfer students is designed to provide data analysis, the results determine distinctive strategies to increase the success of community college transfers in engineering.
- 3. Students and educators share information with institutional stakeholders on student outcomes and are interested in engineering careers.

**Challenges**
- Recruiting and retaining women to make up 20% of engineering graduates
- Measuring and documenting the SEE Council Effect to improve and sustain effective practices and promote a culture of evidence

**Sustained Efforts**
- Engineering Admissions Partnership (EAPP) continues as an established learning community at Iowa State University.
- New engineering messaging has been adopted in all recruiting materials at Iowa State.
- Engineering 100 continues to expand and is now offered on three DMACC campuses.
- Discover Engineering Days for high school students continue at DMACC and have expanded to include other career areas.

**Policy Briefs**
- **STEM Student Success Literacy (SSSL)**
  - Designed to measure STEM student success literacy.
  - Developmental and career counseling.

- **Transfer Student Success Literacy (TSQ)**
  - Consists of a self-report survey of student success literacy. Students will be invited to participate.

- **Transfer Knowledge (TK)**
  - Led by Iowa State University Research Institute for Community Colleges.

**Research Design**
- **Longitudinal Study**
  - Follows students from entry to the community college through the completion of their academic experience.

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