The objectives of this dissemination project are:

- to develop media presentations in the form of educational videos that educate the public and community colleges about the pathway to a STEM baccalaureate degree from two-year colleges;
- to develop a PATHWAY Transfer Student Guide (TSG) for prospective students attending two-year colleges that educates students about the transfer process; and
- to develop a web site that will be used to disseminate educational resources to educators (two-year and four-year institutions), academic counselors/advisors, Transfer Center coordinators, students in two-year colleges, business and industry, researchers, policymakers, and the public.

**EXCERPTS FROM STEM TSG**

**Physical Science Majors**

- Astronomy
- Chemistry
- Computer Science
- Geosciences
- Physics

**Technology Majors**

- Aeronautic
- Agricultural
- Architectural

**Engineering Majors**

- Biomedical
- Chemical
- Civil

**Math Majors**

- Algebra
- Calculus
- Statistics

**EQUIPMENT AND SUPPLIES**

- Safety glasses
- Lab coat
- Lab notebook

**RESEARCH**


"The objective of this study is to understand the influence of students’ background characteristics, high school academic performance, and attitudes toward science on their self-concept. Specifically, this study addresses gender differences and the extent to which each construct influenced students’ self-concept." (p. 214).

**STUDENT PROFILE HIGHLIGHT**

Name: Katie Walquist
Major: Physics
Hometown: Ames, IA
Extracurricular Activities and Honors: Phi Theta Kappa Member, Coca-Cola Scholarship Recipient, 2008, Distinguished Chapter Leader Award, Recipient Phi Theta Kappa – Tau Phi October 2008, Boone Campus Nominee on the 2009 All-Iowa / All-USA Academic Team, 2009 Nominee Who's Who Among Students In American Universities and Colleges, Oncology Camp Volunteer, Schaller Jaycees volunteer, volunteer at The Help Center (a local food pantry), Parent volunteer for Ames Impact Track, active member of my church and church choir
Community College Attended: Des Moines Area Community College

Why did you choose to transfer to Iowa State University?

Iowa State University has always interested me. Having an interest in science, I knew very young that Iowa State was the best school for me. Having Iowa State in my hometown was an added bonus. The campus is beautiful, and I am very at home here.

What created your interest in Physics?

My interest in Physics comes from a love of Astronomy. I am a bit ‘star crazy’. I thoroughly enjoy getting up in the middle of the night to watch a meteor shower. This love led me to an interest in the way things work on Earth, as well as in the universe. It is very fun for me to learn why and how things work around me and to encourage others how much fun math and science can be.

What is your advice to incoming transfer students?

As an incoming transfer student, it is very important to get connected. Meet with a counselor and visit the Pathway2STEM website. The transition can be much easier if you plan ahead and have an instructor or advisor helping you along the way.