

Developing 21st Century Skills

Program Impact Summary - 2022

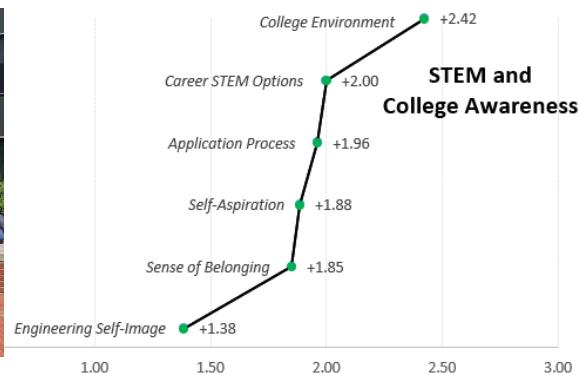
The Center for STEM Education measures YSP impact on students in three regions: **research skills**, **soft skills**, and **STEM and college awareness**. These are based on the **Engineering Competency Model**, a joint initiative by the U.S. Department of Labor and the American Association of Engineering Societies. Students were asked how they felt the program impacted these topics. Out of the 57 questions asked (not all represented below), the average change was +1.70, min: +0.8 (originality), max: +2.4 (what college environment is like). 100 percent of respondents gave a positive review of the program and all students plan on applying to Northeastern University.

Research skills are technical abilities that students can develop and utilize when exploring and researching scientific questions.

Scale:

- 3/+3 = Large Negative/Positive Change
- 2/+2 = Medium Negative/Positive Change
- 1/+1 = Small Negative/Positive Change
- 0 = No Change

STEM and college awareness is based on student's knowledge and confidence regarding STEM career options, college applications, and college life.

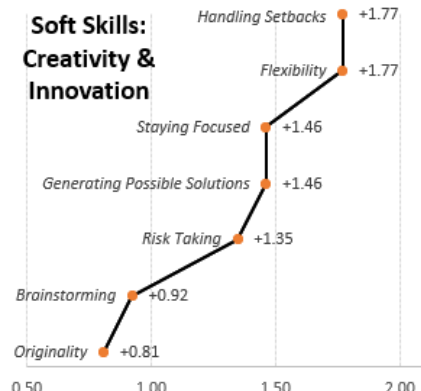


Soft Skills: Leadership & Teamwork

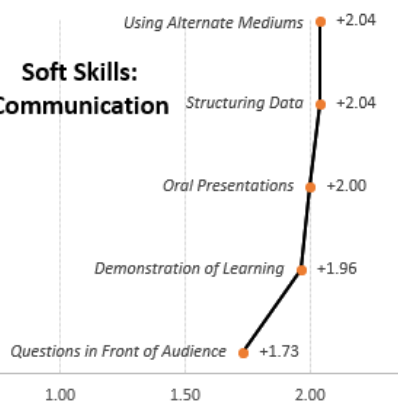


Soft skills are students' personal qualities required to adapt and improve in the work environment.

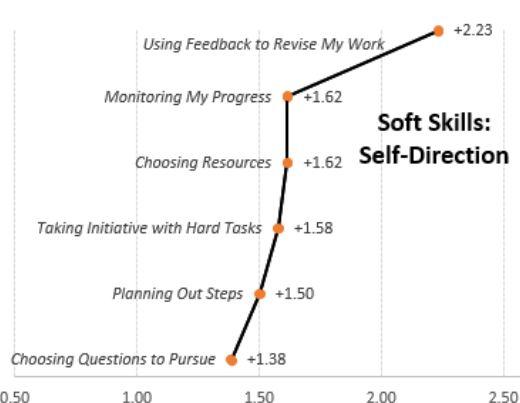
Soft Skills: Creativity & Innovation



Soft Skills: Communication



Soft Skills: Self-Direction



Soft Skills: Critical Thinking

