

**Article title:** Five Major Shifts in 100 Years of Engineering Education

**Author:** Karl Smith

**Publisher:** IEEE

**Date of Publication:** 17 April 2012

**Published in:** Proceedings of the IEEE

**Source:** <https://ieeexplore.ieee.org/document/6185632/>

**Work created by:** Andreev Alexander, IU7-54B

**Questions as a retelling plan:**

1. What was the first major shift in engineering education in the United States? And when did it occur?
2. What results did the realisation of the program get to engineering education?
3. On what was based the second major shift in engineering education in the United States? And was was it?
4. How many crititatives in the second major shift were put into general use? And what were they?
5. Why did design become fundamental in the fourth major shift in engineering education in the United States?
6. In what situations did scientists understand the need for changes in engineering design?
7. Why are researches in education, learning, and social behavioral sciences continuing to evolve?
8. How student engagement helps science to develop more rapidly?
9. What are the main factors influencing the consciousness of students and the intellectual audience to increase the importance of science in modern reality and attracting it?
10. Why is the engineering education debate still ongoing? And how useful are they to us?