

Examples of Active Student Participation at Uppsala University

WHAT Flipped Classroom, Introduction to Computer Architecture (plus over 100 other courses at UU and elsewhere)

INSTITUTION / FACULTY Department of Information Technology

WHICH STUDENTS PARTICIPATE IT, DV, Physics at Uppsala University
Over 10,000 students across Sweden and the world

CONTACT PERSON(S) David Black-Schaffer, david.black-schaffer@it.uu.se

DESCRIPTION

- ScalableLearning online platform to flip classes by putting interactive lectures online.
- Online results are used to review students' online quiz results before class and respond to online questions.
- In-class time is used for active practice problems.

PURPOSE / BACKGROUND

- Several studies have indicated very large gains in student learning from switching to active learning instead of lectures.
- Tools to support can make this easier for the teachers and more effective for the students.

PROS

- Evidence of much better student results
- Much more fun for the students
- Much more fun for the teachers

CONS / CHALLENGES

- Developing interactive online and in class material takes time and practice.
- Students are skeptical at first to spending more time on the class, but appreciate it enormously once they see the benefits.

REFERENCES AND RESOURCES Information and video tutorials available at www.scalable-learning.com