

# Learning to Teach Computer Science

Aman Yadav, Department of Educational Studies  
John T. Korb, Department of Computer Science

# Need for a Methods course

- ❑ Low AP Enrollment numbers
- ❑ CS10K Effort
- ❑ Teachers need:
  - ❑ Content Knowledge
  - ❑ Pedagogical Knowledge
  - ❑ Pedagogical Content Knowledge

# CS Methods course

- ❓ A computer science methods course is about how computer science is learned and taught, and about how classrooms can provide an environment for learning computer science.
- ❓ Builds upon existing course work in computer science and education.
- ❓ Final course before student teaching.

# An example :: Purdue CS Methods Course

- Readings

- Reflections on the Teaching of Programming* (Bennedsen, Casperson, and Kolling, 2008)
  - Guide to Teaching Computer Science* (Hazzan, Lapidot, and Ragonis, 2011)

- ACM SIGCSE

- Lesson Plans

- Micro-teaching

- Field Experience

- Reflection Journals

# Questions and Comments?