"Chicago Alliance For Equity in Computer Science (CAFECS): Cycles of improvement" poster in Special Session: A discussion of research practice partnerships in CS education

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Chicago Alliance for Equity in Computer Science (CAFÉCS): Cycles of Improvement

ECS is the primary course that students have been using to fulfill the graduation requirement in CPS. The ECS curriculum is composed of activities that are designed to engage students in CS inquiry around meaningful projects. The pedagogy of ECS is structured around three interwoven strands: equity, inquiry, and CS concepts. The ECS professional development program is designed to prepare teachers to implement these inquiry-based activities while also guiding teachers in building a classroom culture that is culturally responsive and adapting lessons to the backgrounds and interests of the students.

Course Units
- Human Computer Interaction
- Problem Solving
- Web Design
- Introduction to Programming
- Computing and Data Analysis
- Robotics

Building Trust and Cultivating Partner Relations
- Collaborative decision-making is a hallmark of CAFÉCS ethos and meetings
- Team members value diverse expertise of the group to inform research design

Conducting Research to Inform Action
- CAFÉCS members share a common goal: to support CPS to bring CS to all students
- Weekly and monthly meetings provide a space for problem-solving and brainstorming
- Data sharing MOU
- CAFÉCS whole team meetings offer learning opportunities:
  - Problem solving and brainstorming
  - Discussions to build common understandings towards shared goals, vision, purpose
  - Sharing research findings

Supporting the Practice Partner in Achieving Its Goals
- CAFÉCS arms CPS staff with relevant research that guides implementation

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