# Partner4CS

## Overview

**About:** We are offering PD and classroom support to high school teachers toward teaching CS Principles and middle school teachers toward integrating ECS through creating a 1-week summer PD workshop, quarterly Saturday morning PD, and ongoing in-classroom support with a Field Experiences in Teaching CS course at University of Delaware for CS, math education, and education students.

**Institution:** University of Delaware

**Data for:** {Choose: 2012/13 or 2013/14}

**PI/Leader:** Lori Pollock

**Age of Program:** Starting PD Workshop June 2013. Offering classroom support through UD course spring 2013.

**Location:** University of Delaware

**School Districts:** State of Delaware

---

## Teachers Served

**Served:** {# served annually} TBA

**Dosage:** {# of hours per teacher} TBA

**Grade(s):** Grades 5-12

**Characteristics**

CS Principles for high school; ECS-like for middle school.

---

## Program Budget

**Sources:** NSF CE21; Working on partnership with JP Morgan Chase

**Budget:** 275K
Learning Goals

- HS Teachers
  - Increased Use of CS Best Practices
  - Improved CS Skills
  - Increased Community of Practice
  - Increased Awareness of CS Impacts

- MS Teachers

- CS Ugrads
  - Improved Confidence
  - Improved CS Skills
  - Increased Awareness of Community Impacts
  - Increased Ability to Communicate Technical Concepts
  - Improved Communication Skills

- Math Ed Ugrads

- Ed Ugrads

- HS Students
  - Increased Comp Thinking Skills
  - Increased Awareness of CS Impacts
  - Increased Enthusiasm in CS and careers in CS

- Dissemination Materials
  - CS Lessons
  - Workshop Materials and Models
  - Evaluation Instrument Results
**PD Structure**

**Format:**
- 4-day summer workshop in June
- Quarterly Saturday mornings
- Academic year ongoing classroom support through UD Field Experiences in CS Teaching course

**Participants:**
- High school teacher track: cs, technology, math, science
- Middle school teacher track: grades 5-8
- High school student with each teacher to serve as peer mentor
- Guidance Counselors, principals, and district leaders invited on first day

**Team:**
3 CS profs + 1 Edu prof + 3 math edu profs + 1 outreach coordinator + 2 evaluators + 1 HS teacher + 2 MS teachers
Successes and Challenges

Successes:
• Field experiences in CS Teaching course
  – 2 partner schools
  – Class observations and teaching
  – UD student interest
• Local bank interested in partnering
  – District-level connections
  – Government connnections
• First summer PD workshop invitations sent
  – immediate interest

Challenges:
• Identifying contact information for teachers, counselors, principals
• Scheduling time to meet with individual teachers at their schools to initiate partnerships
• Learning logistics of background checks, etc of going into classrooms
Measures of Success

• MS and HS Teachers:
  – Pre/post knowledge based test that resembles content of the new AP exam
  – Lesson plans indicate implementation of best practice pedagogical skills and CS Principles content
  – Teachers self report confidence in teaching CS principles
  – Count of lesson plans adapted to address broad impact of CS
  – Teachers identify numerous occupational outcomes on a survey
  – Number of hits and uploaded lesson plans on the community of practice site
  – Number of questions and answers on the list serv part of web site
{Use this slide to describe anything else that you would like to share about your PD.}