Redesigning *Elementary Science Methods* (EDCI 372) by Infusing Citizen Science as a Pedagogical Strategy: An Intervention and Study

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Intervention

Model the use of citizen science in two class sessions by engaging elementary teacher candidates with Cornell Lab of Ornithology’s *Celebrate Urban Birds* project.
Sample activity

Tools:

iPad Mini with Merlin Bird ID app

Celebrate Urban Birds data collection protocol
Fall 2014 Pilot
Studying the Redesign

Our Fall 2015 IRB-approved pedagogical study will investigate future elementary teachers’ understanding and views of citizen science as a means of enacting the Next Generation Science Standards

- **Focal NGSS Disciplinary Core Idea: Climate change**
- **Focal NGSS Practice: Computational thinking**

**Data sources**
- Observation and field notes
- Student-generated drawings
- Blog post assignment
- Post-course focus group
- Artifacts (student-created lesson plans)
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