

K-12 OUTREACH PROGRAMS



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ADVENTURES IN CS CAMP 2014

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

- Five day summer camp
- Targets middle school and high school aged students with no prior experience with computer science
- Utilizes educational software tools such as Alice, Pico Crickets and App Inventor
- Will introduce students to professional languages and tools such as Python, Processing with Arduino, and GitHub



REACH OUT FOR COMPUTER SCIENCE

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



- Student group that engages in K-12 outreach
- Hosted as a 1-credit college course
- Provides Purdue students with an opportunity to:
 - mentor K-12 students
 - explore educational pathways
 - improve outreach offerings



WOMEN IN CS MENTORSHIP PROGRAM

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE



- Mentorship program for high school girls in technology
- University CS students and volunteers from industry will meet weekly to mentor high school girls
- Each semester provides a focus on one major CS concept:
 - programming
 - app development
 - web design
 - robotics
- Semester end event will celebrate the work done by students
- One corporate partner site visit per semester will allow young women to explore career pathways

OTHER PROGRAMS

PURDUE K-12 OUTREACH FOR COMPUTER SCIENCE

- **Elementary STEM Workshop**
 - Summer 2014
 - Focus on getting computational thinking activities in K-5 classrooms
 - 25 Indiana teachers
- **CSTA website and summer institute**
 - Aiding CS teachers with curriculum
 - Connecting teachers in effort to improve professional practice
- **New Community School Tech Club**
 - Technology club for students in grades 4-7
 - Robotics with Finch
 - Programming with Scratch and Processing
 - Lafayette, IN
- **CS Ed Week**
 - Raising awareness of CS education
 - Will host one-day event featuring K-12 activities