Expanding Computer Science Principles in Central Texas

Thanks to a grant from the Center for STEM Education at The University of Texas at Austin, UTeach Computer Science will be expanding access to their College Board–endorsed UTeach CS Principles course. Professional development is scheduled for the week of June 11–15, 2018, in Austin.

What is available?
Twenty central Texas high school teachers will be selected to receive $1,000 stipends, in-person summer training, and year-long support. Teachers interested in getting CS certified are eligible for an additional $1,500 to $2,500 stipend.

Note: Priority will be given to campuses planning to offer AP CS Principles during the 2018–2019 school year.

Participating teachers will receive the following at NO COST:

• Comprehensive AP Computer Science Principles curriculum and teacher support materials
• Year-long implementation support services
• Online national community of practice

How do I learn more?
Sign up for updates and information: http://bit.ly/cs_interest

Register for an informational webinar Wednesday, January 31, 2018, at 3 p.m.: http://tiny.cc/UTeachTRCwebinar

Application now open: http://tiny.cc/UTeachTRC

Contact us with questions at info@uteachcs.org.
Visit uteachcs.org.
**UTeach CS Principles (CSP)** is a complete high school curriculum—designed by University of Texas at Austin computer scientists and experienced high school computer science teachers—that introduces students to the big ideas in the field of computer science through inquiry- and project-based learning approaches.

The curriculum is designed to engage students from diverse backgrounds and those who are new to computing. The course has been refined over five years in about 300 classrooms across the country.

**UTeach CSP** engages all students in authentic, project-based learning to develop computational thinking through:

- Collaborative problem solving
- Creative design of unique solutions
- Data representation through modeling and simulations
- Algorithmic reasoning

**UTeach CSP Results**

Around 100 classrooms piloted UTeach CS Principles in 2016-17, the first year the College Board offered the AP CSP exam. Overall, 83% students in UTeach CSP passed—earning at least a score of 3 out of 5—versus 74% in the nation.

### Percentage of Students Passing the AP CS Principles Exam

<table>
<thead>
<tr>
<th></th>
<th>all students</th>
<th>female students</th>
<th>Black students</th>
<th>Hispanic students</th>
<th>Native American/Alaskan Native/Hawaiian/Pacific Islander students</th>
</tr>
</thead>
<tbody>
<tr>
<td>UTeach CSP national</td>
<td>83%</td>
<td>74%</td>
<td>70%</td>
<td>70%</td>
<td>73%</td>
</tr>
<tr>
<td>UTeach CSP national</td>
<td>83%</td>
<td>74%</td>
<td>70%</td>
<td>70%</td>
<td>73%</td>
</tr>
<tr>
<td>UTeach CSP national</td>
<td>55%</td>
<td>42%</td>
<td>57%</td>
<td>57%</td>
<td>59%</td>
</tr>
</tbody>
</table>

An explicit aim of UTeach CS Principles is to broaden participation in CS among girls and other traditionally underrepresented students, and those groups also outperformed their peers across the country. Female and male students did equally well in UTeach CSP, with 83% passing, while nationally only 70% of females passed. Among underrepresented minority students, 15% more passed if they took UTeach CSP. At the same time, the percentage of female students (31%) and underrepresented minorities (22%) enrolling in UTeach CSP were nearly the same as the percentage enrolling nationally (30% and 26%, respectively).

**Who should teach the course?**

Teachers with any content background or level of experience who have an interest in teaching computer science are welcome. No knowledge or experience with computer science or programming is required. The UTeach Computer Science professional learning model is designed to leverage the knowledge and expertise of all community members to enhance the experiences and competencies of participating teachers.

Teachers interested in teaching UTeach CS Principles are encouraged to attend one of these training opportunities: a 5-day in-person summer workshop, a 6-week summer online professional learning course, or an 8-week online course in the fall or spring.

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